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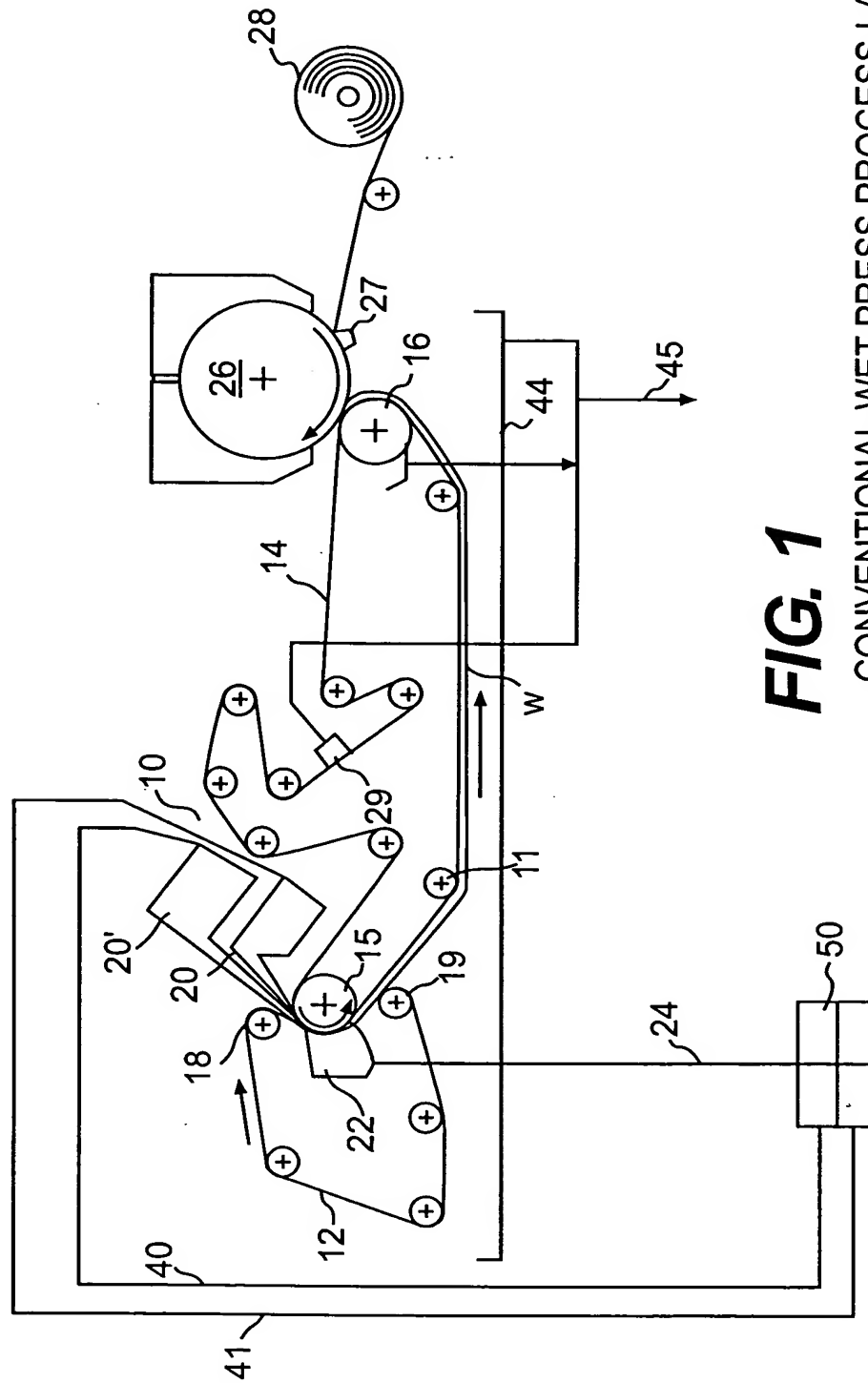


FIG. 1

- CONVENTIONAL WET PRESS PROCESS LAYOUT

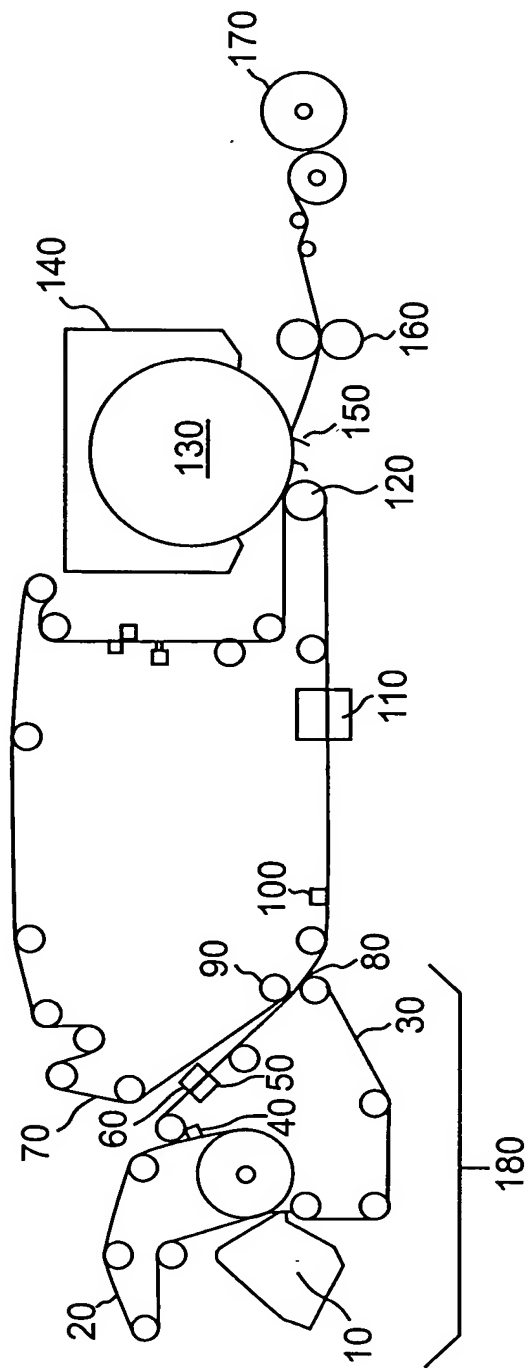


FIG. 2 --CONVENTIONAL THROUGH-AIR-DRYING PROCESS LAYOUT

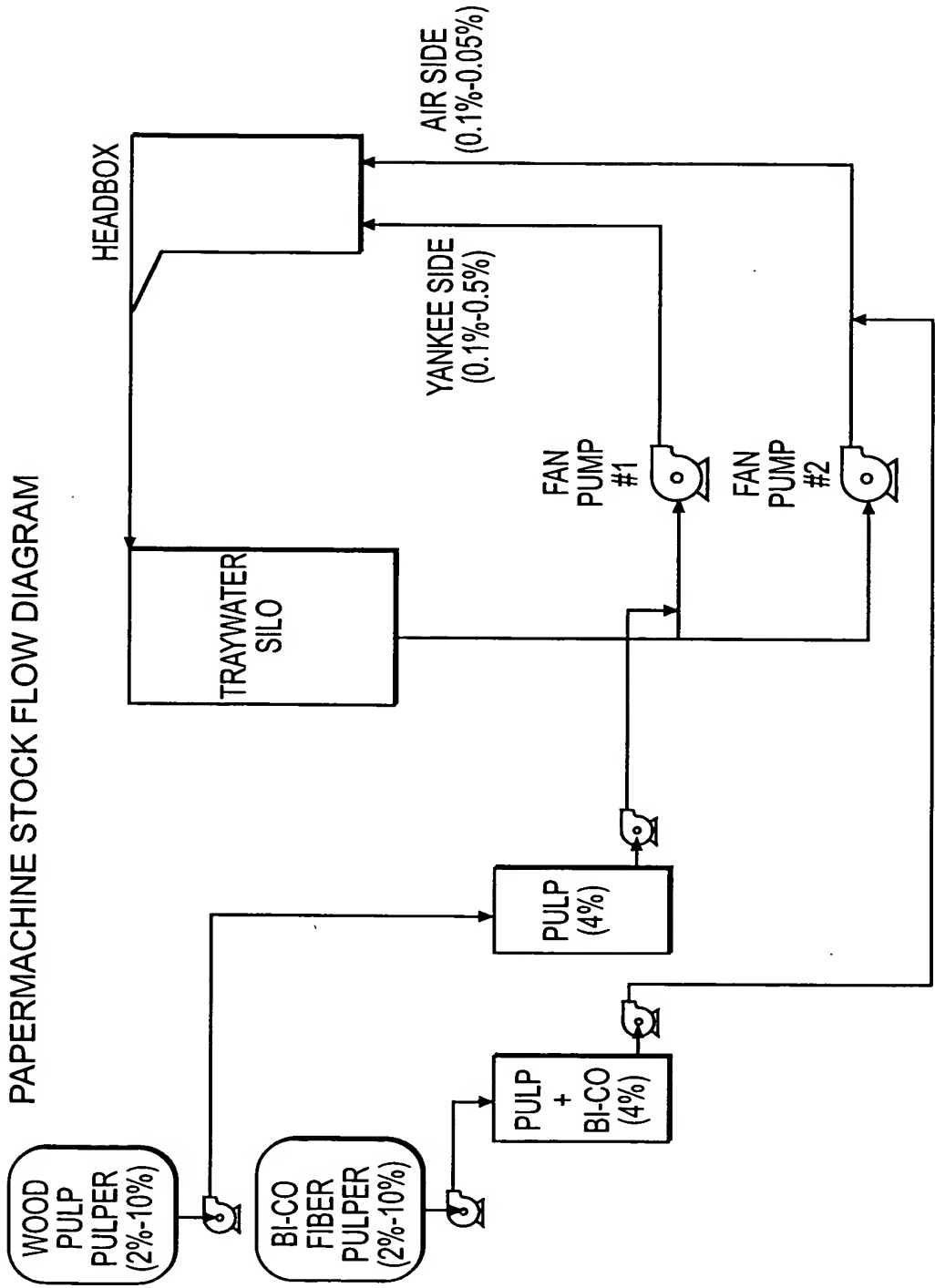
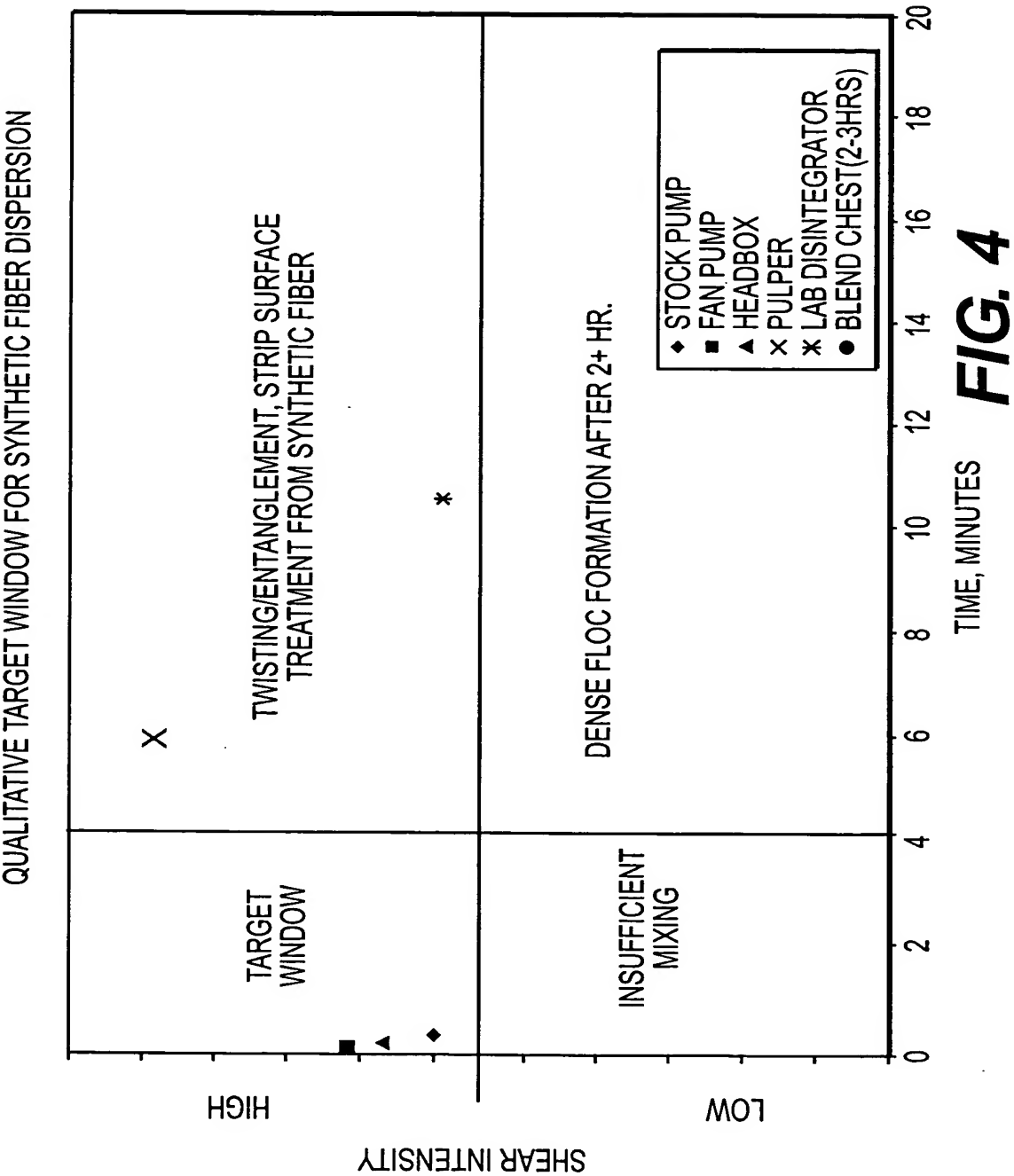


FIG. 3



Replacement Sheet

EFFECT OF BICOMPONENT FIBER PROCESSING ON FORMATION

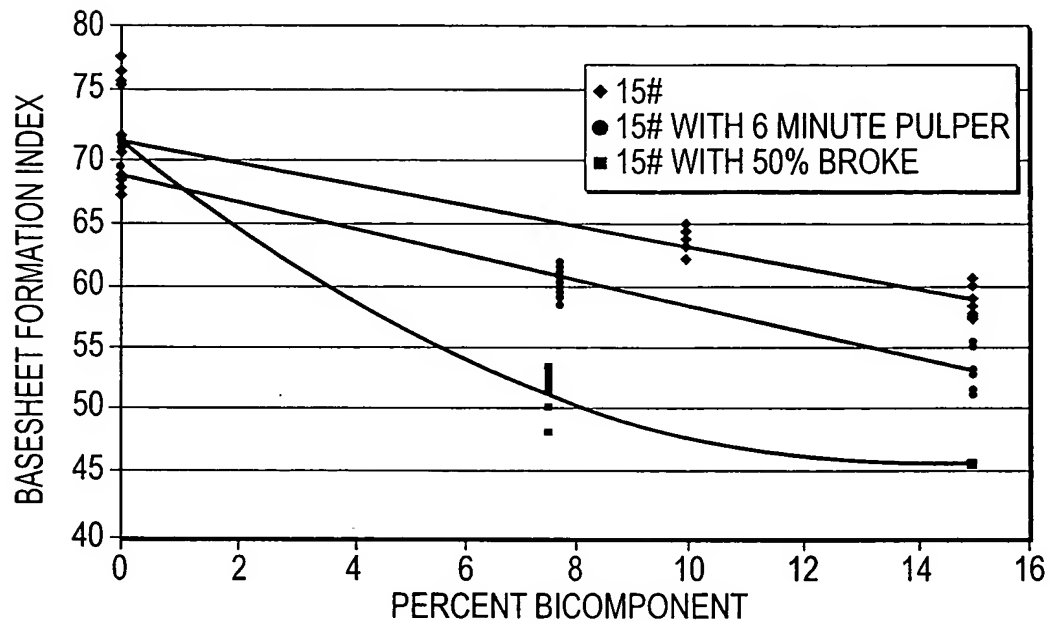


FIG. 5

EFFECT OF BASIS WEIGHT AND BICOMPONENT FIBER ON FORMATION

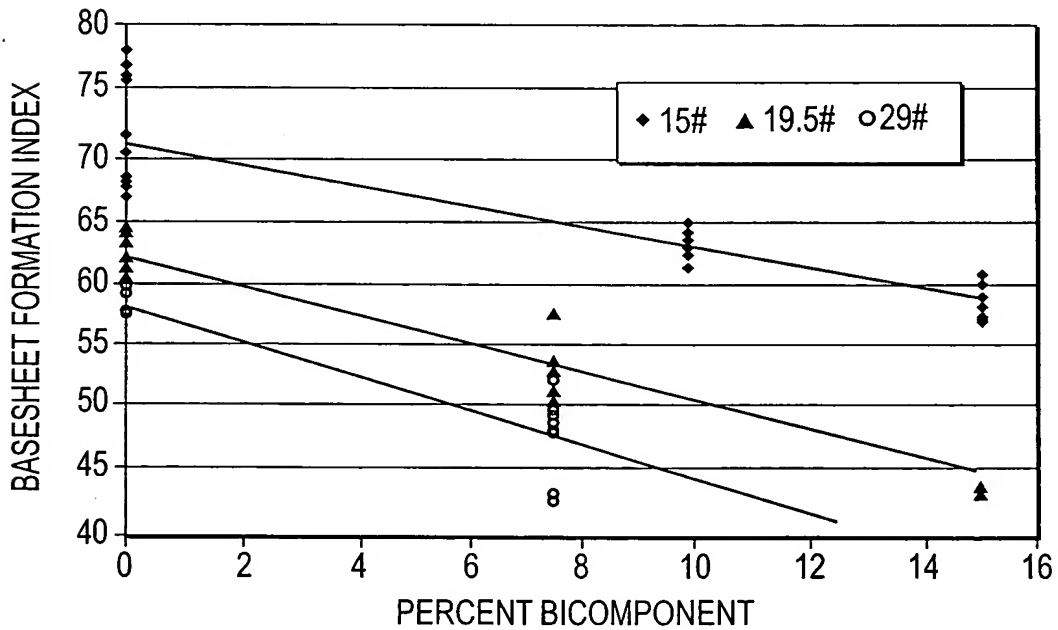


FIG. 6

THERMAL BONDED BICOMPONENT SKELETON
FROM 15# STRATIFIED SHEET WITH 15% BICOMPONENT

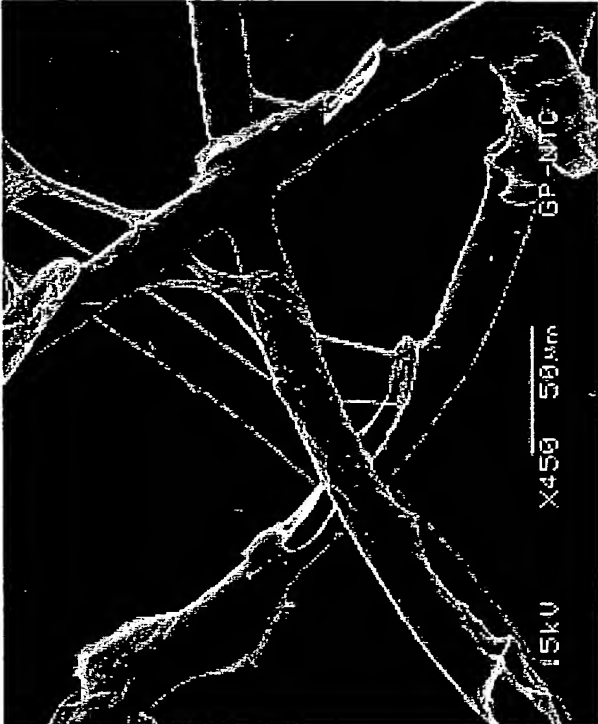


FIG. 7B

THERMAL BONDED BICOMPONENT SKELETON
FROM 15# STRATIFIED SHEET WITH 15% BICOMPONENT

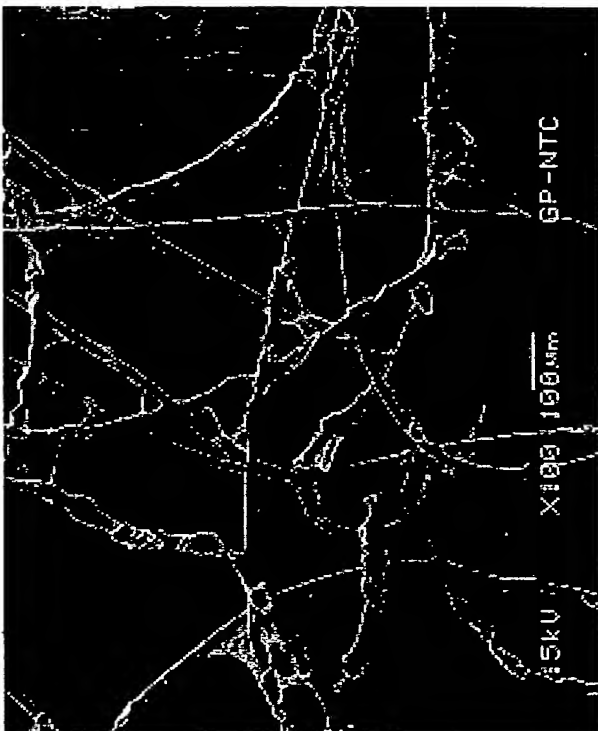
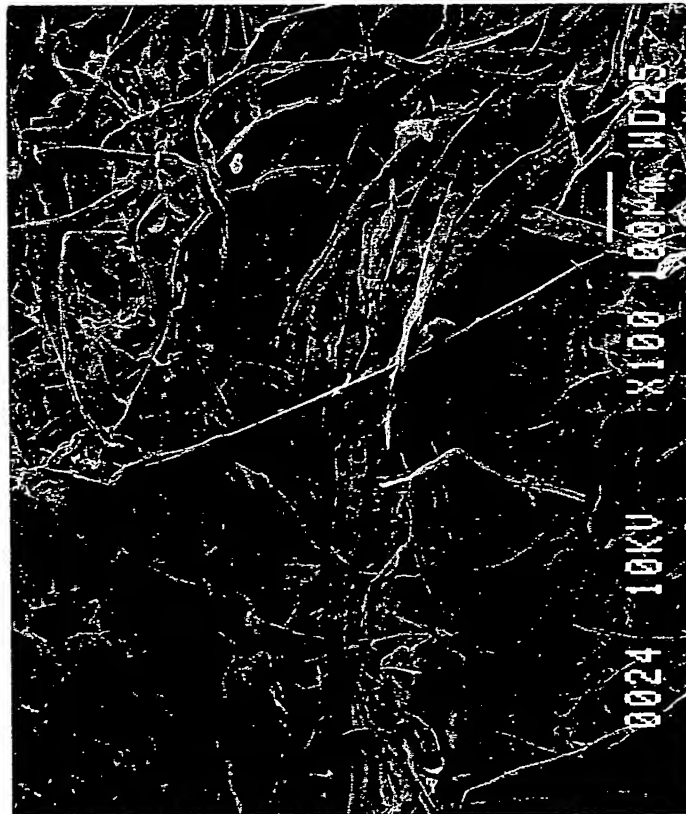


FIG. 7A

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CELL 7

BI-CO

FIG. 8

Replacement Sheet

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CELL 7

FIG. 9



CELL 7

FIG. 10

TWO-PLY TOWEL MADE FROM 15# STRATIFIED
SHEET WITH 15% BICOMPONENT FIBER.

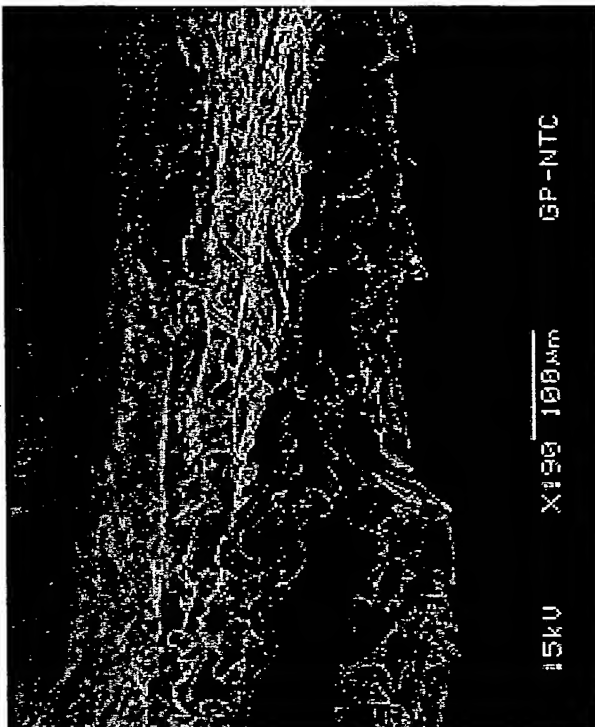


FIG. 11B

TWO-PLY TOWEL MADE FROM 15# STRATIFIED
SHEET WITH 15% BICOMPONENT FIBER.

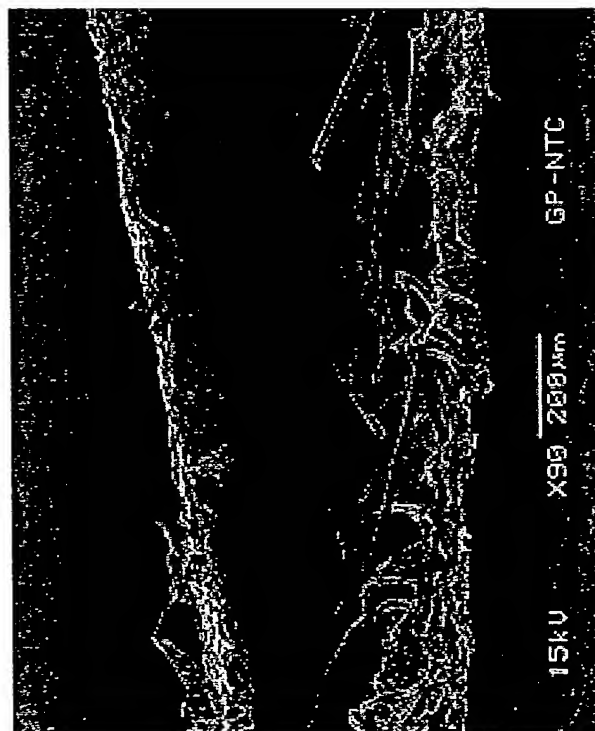


FIG. 11A

RETAIL TOWEL PRODUCT PERFORMANCE (STRATIFIED/TAD OR IR CURED)
SAT CAPACITY AS A FUNCTION OF WET STRENGTH (NORMALIZED)

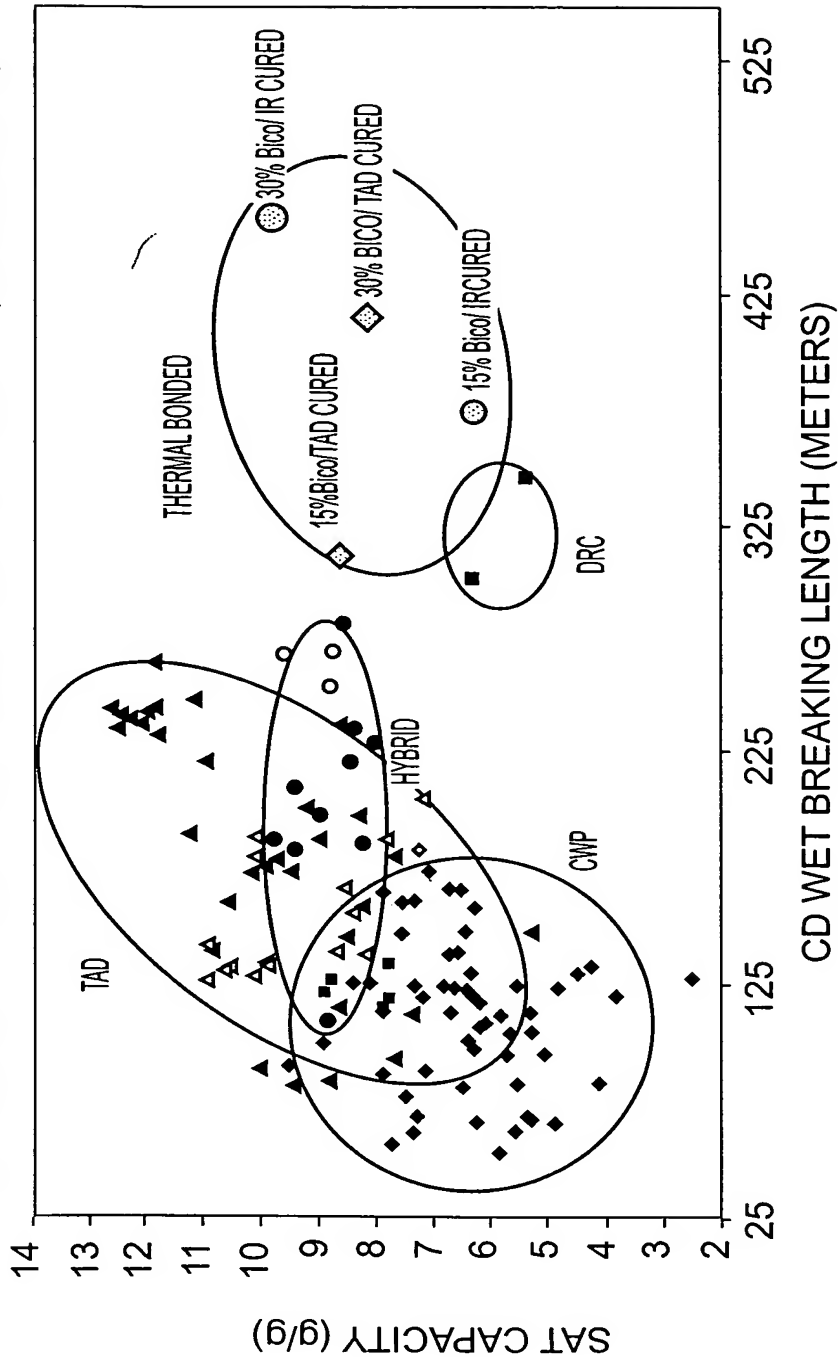


FIG. 12

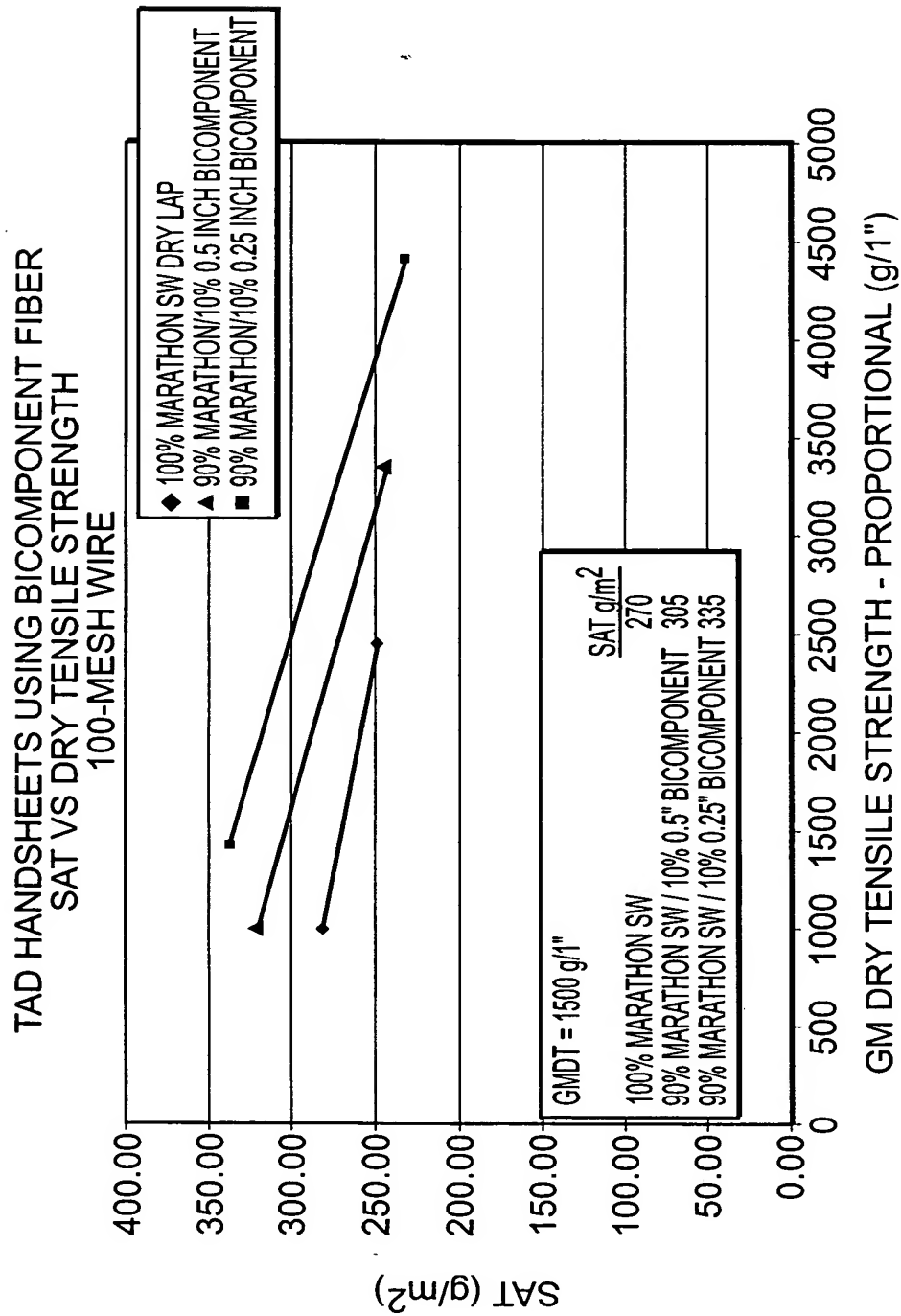


FIG. 13

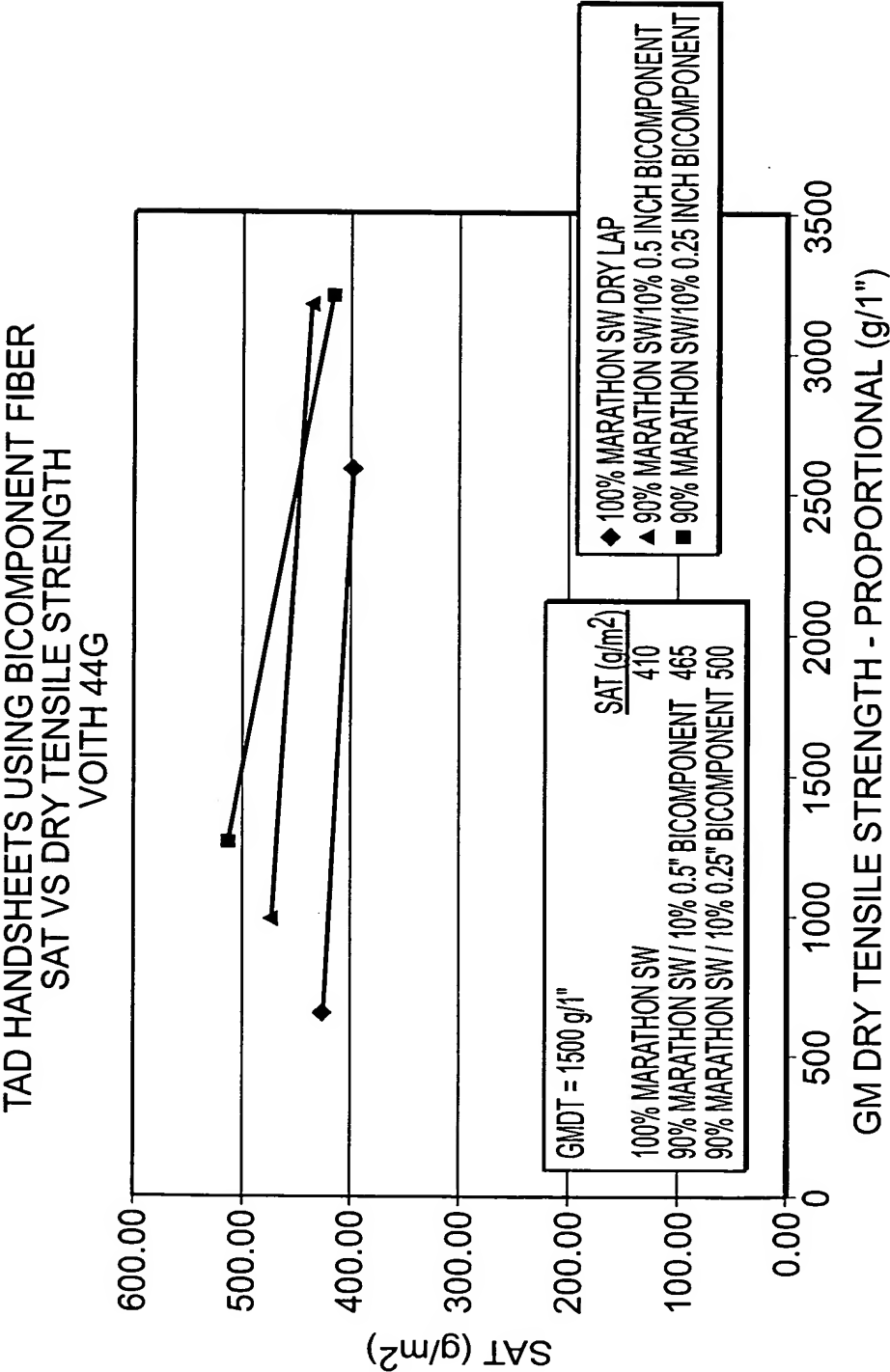


FIG. 14

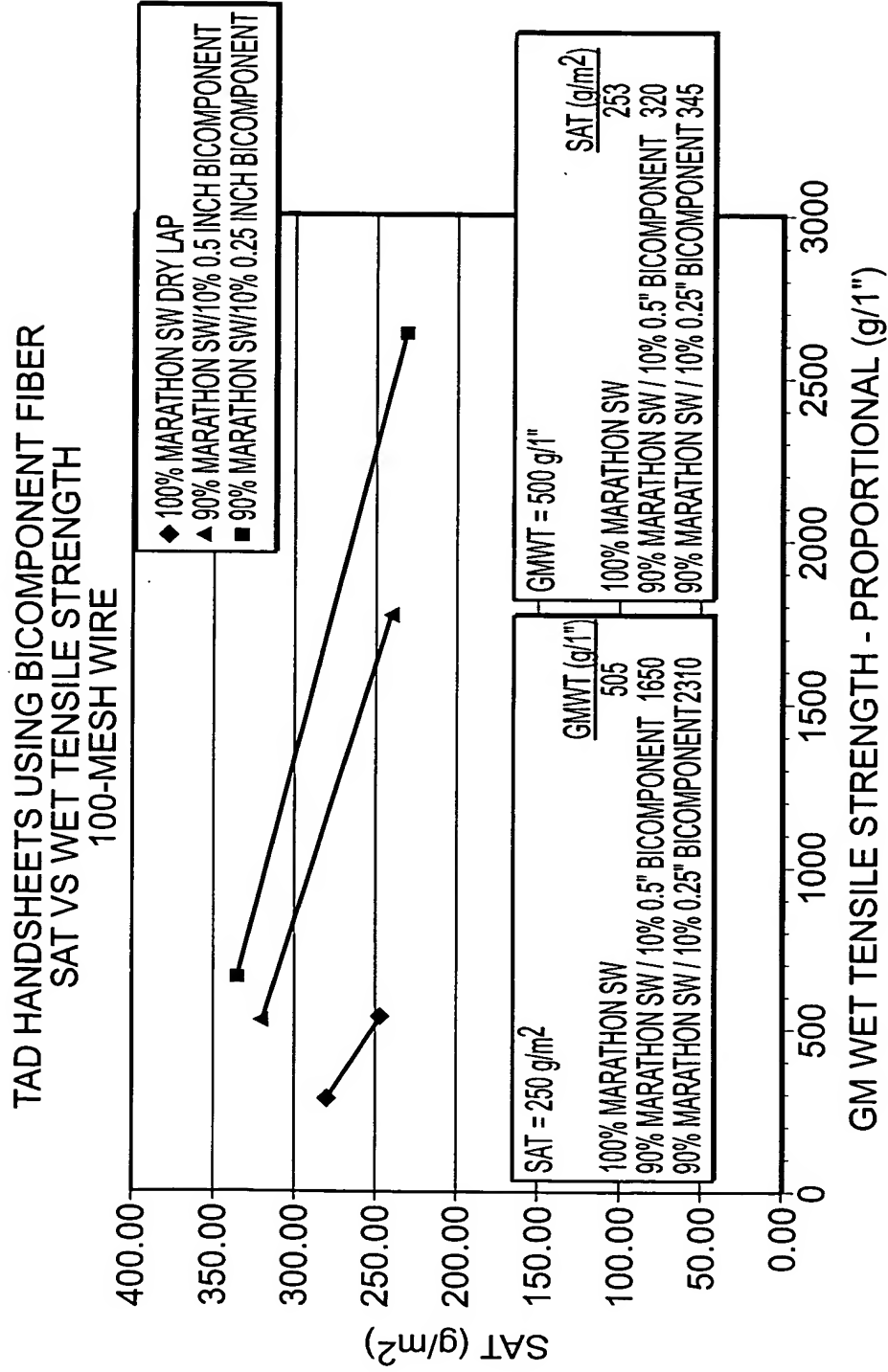


FIG. 15

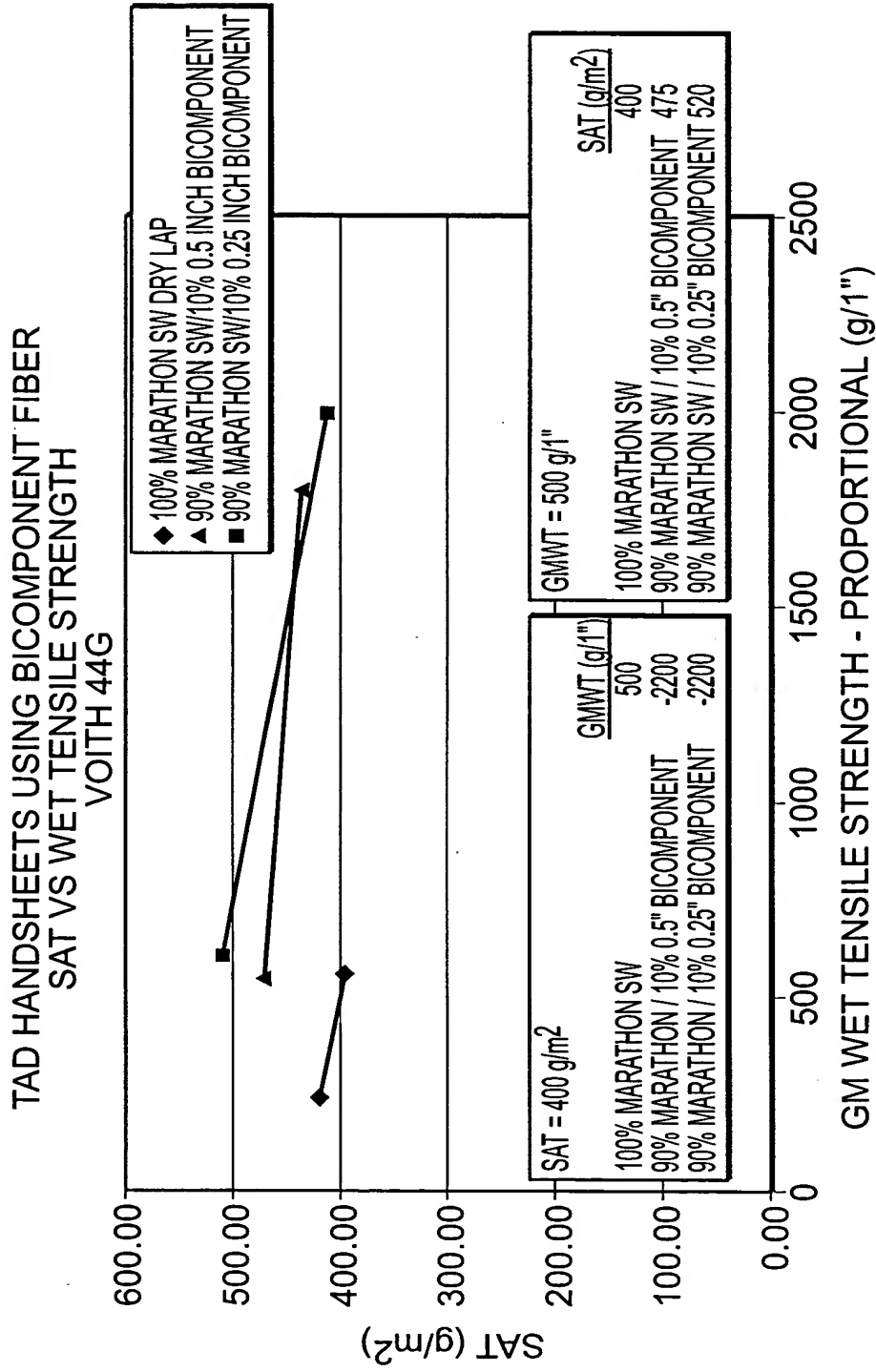


FIG. 16

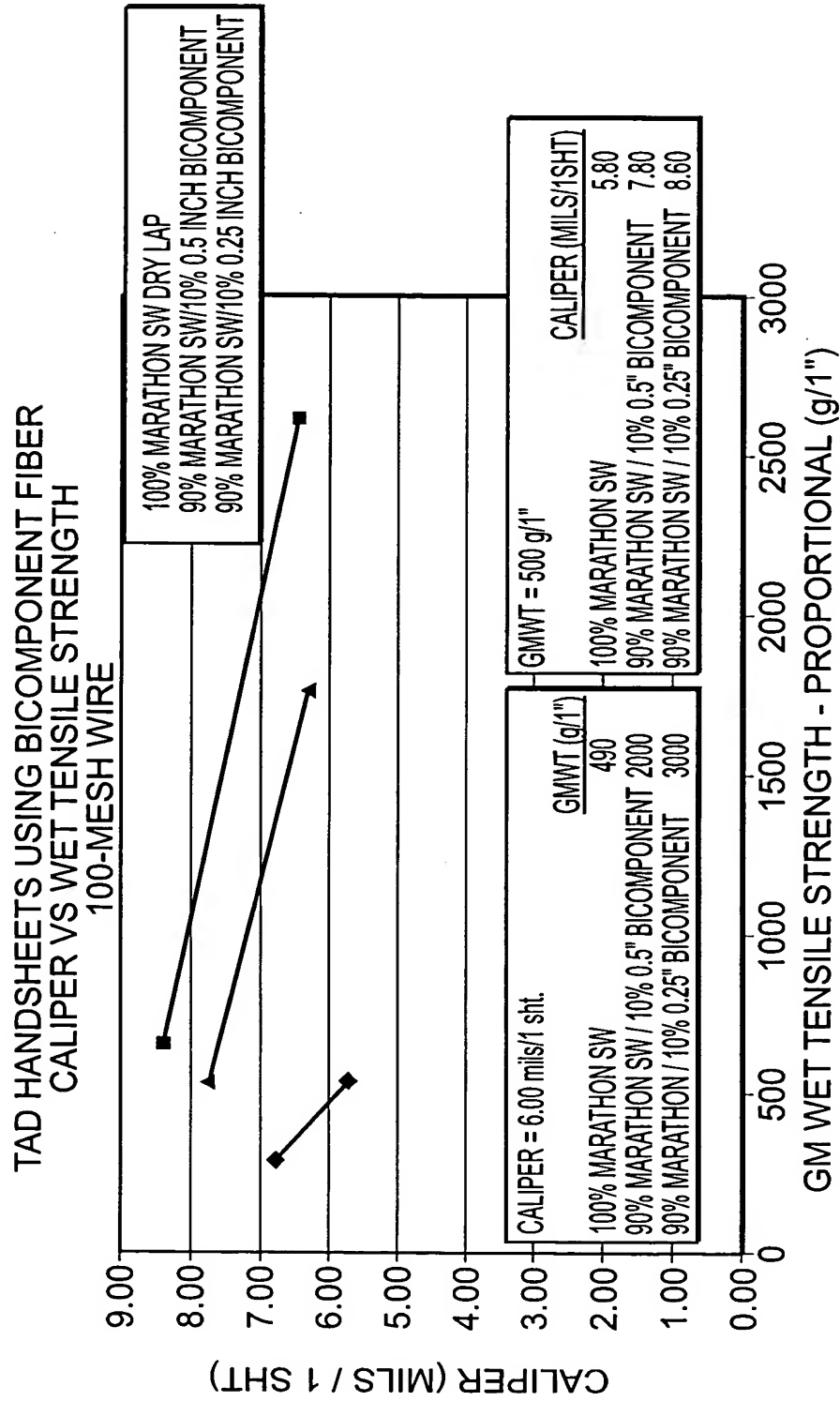


FIG. 17

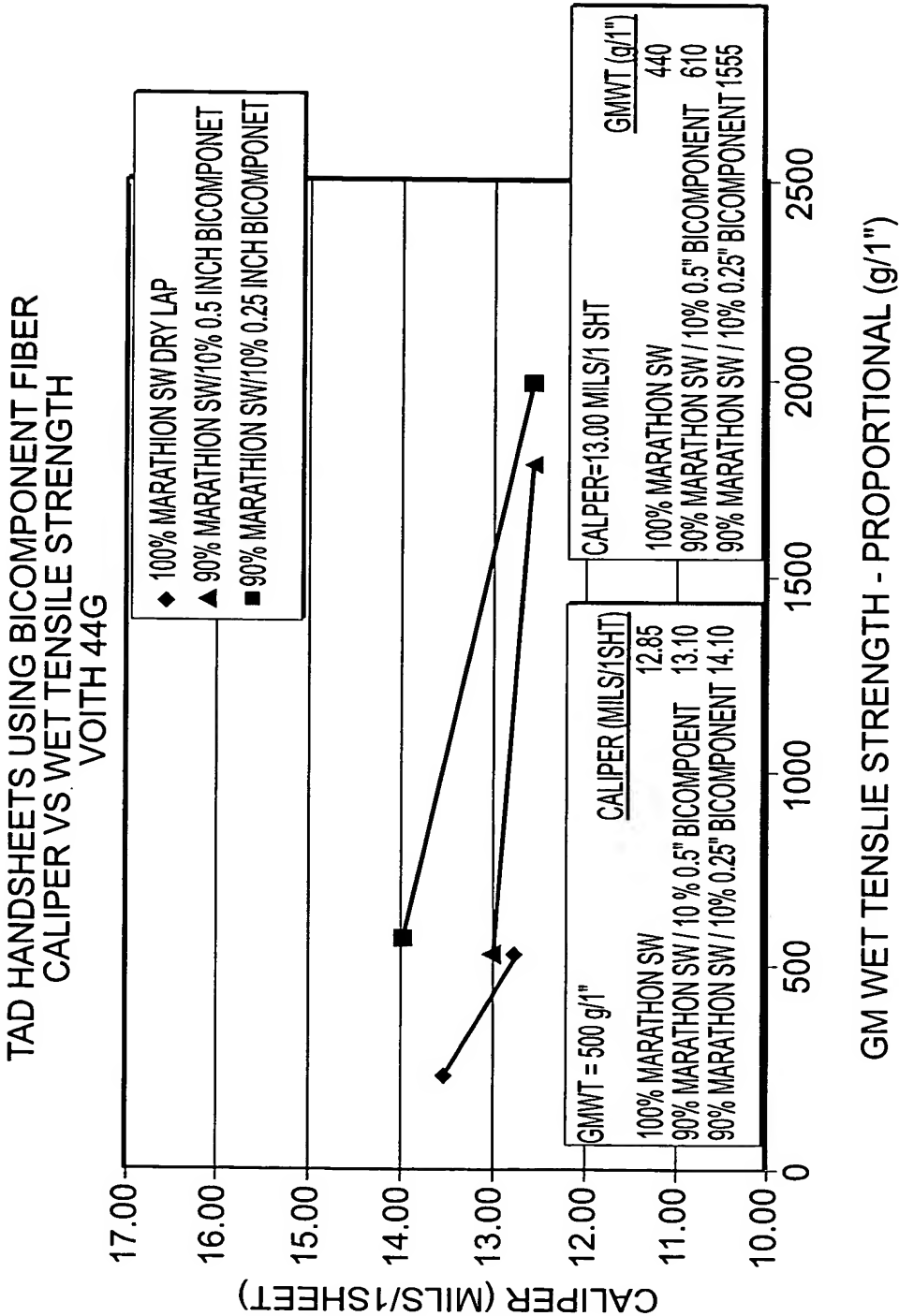


FIG. 18

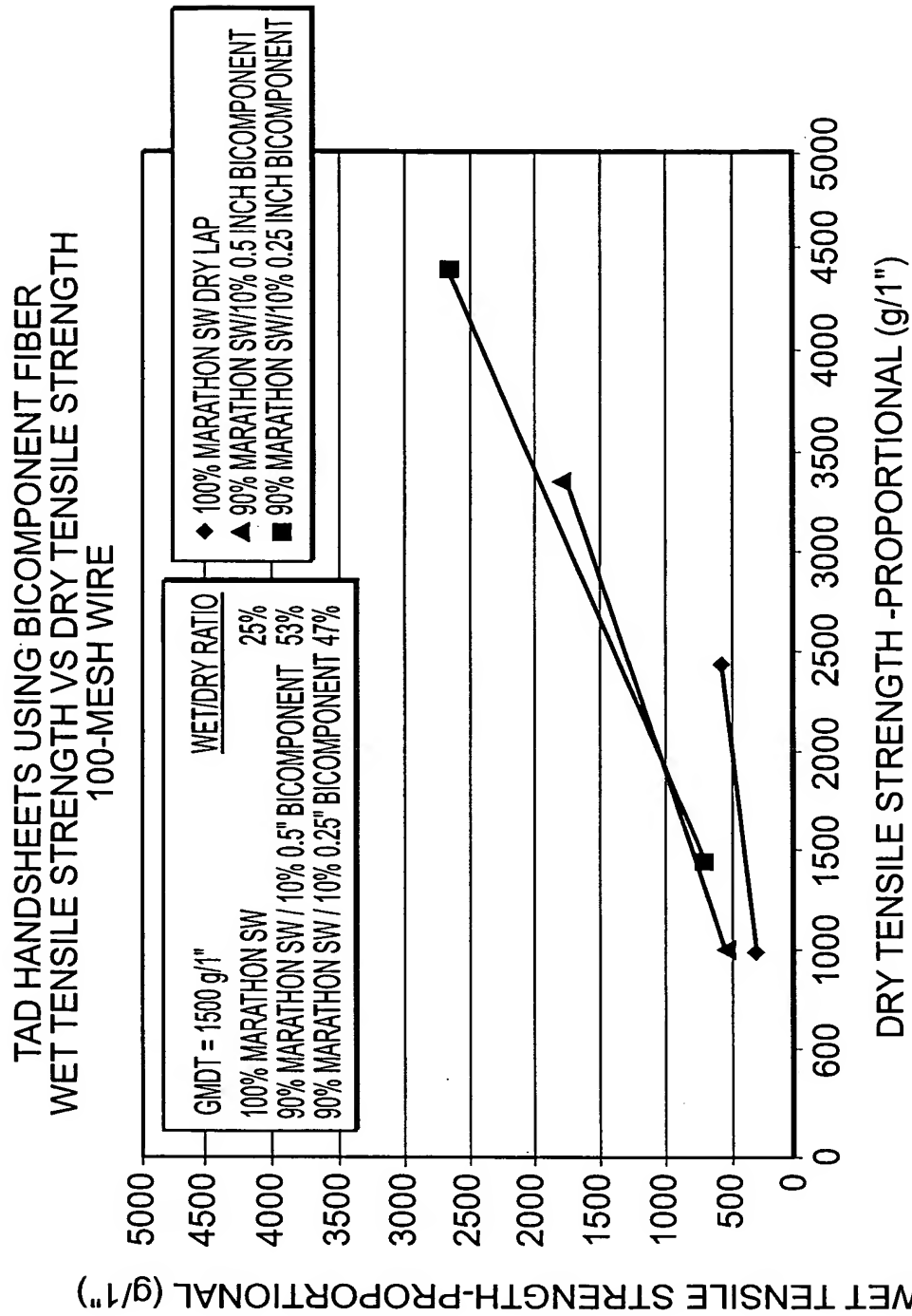


FIG. 19

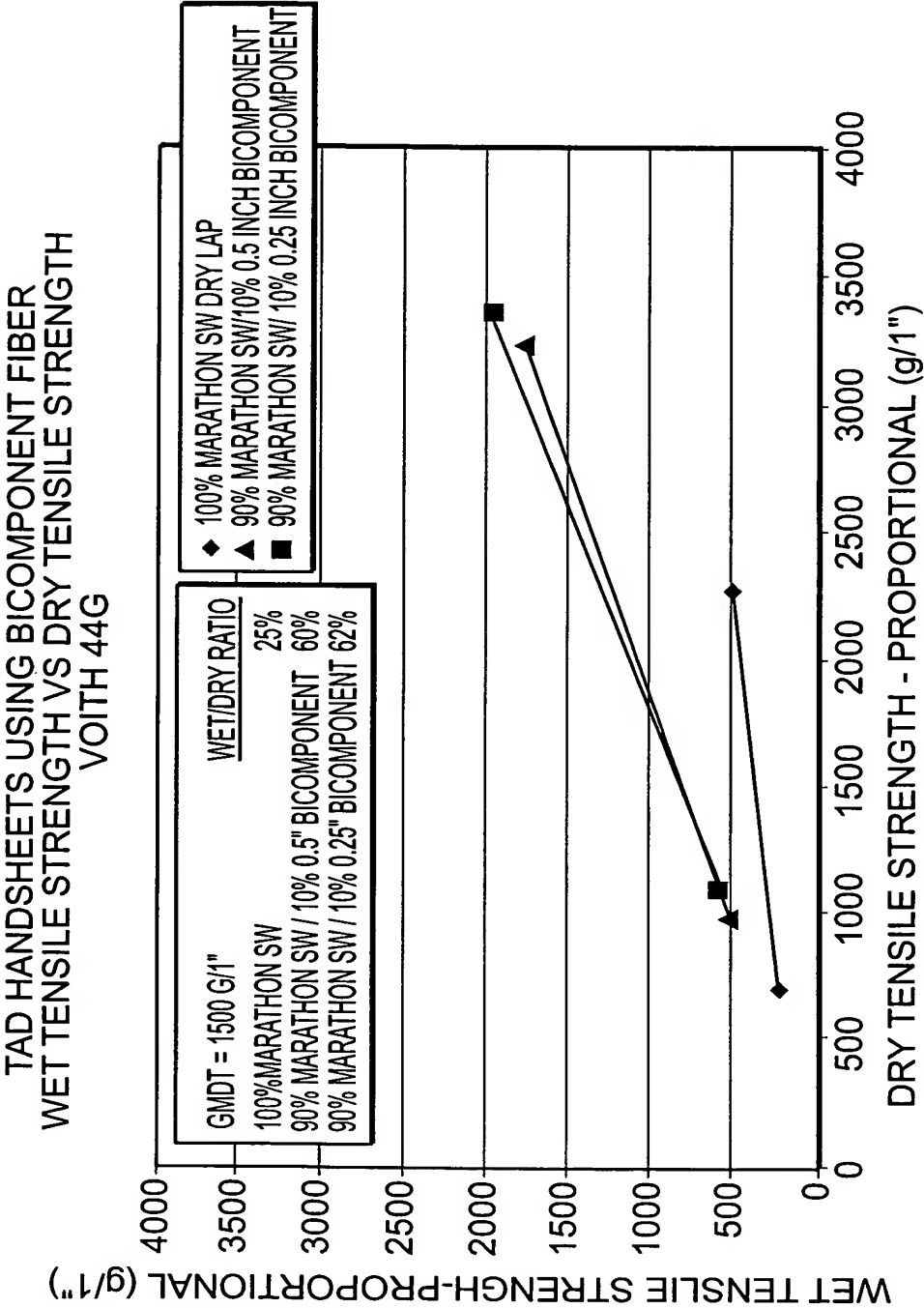


FIG. 20

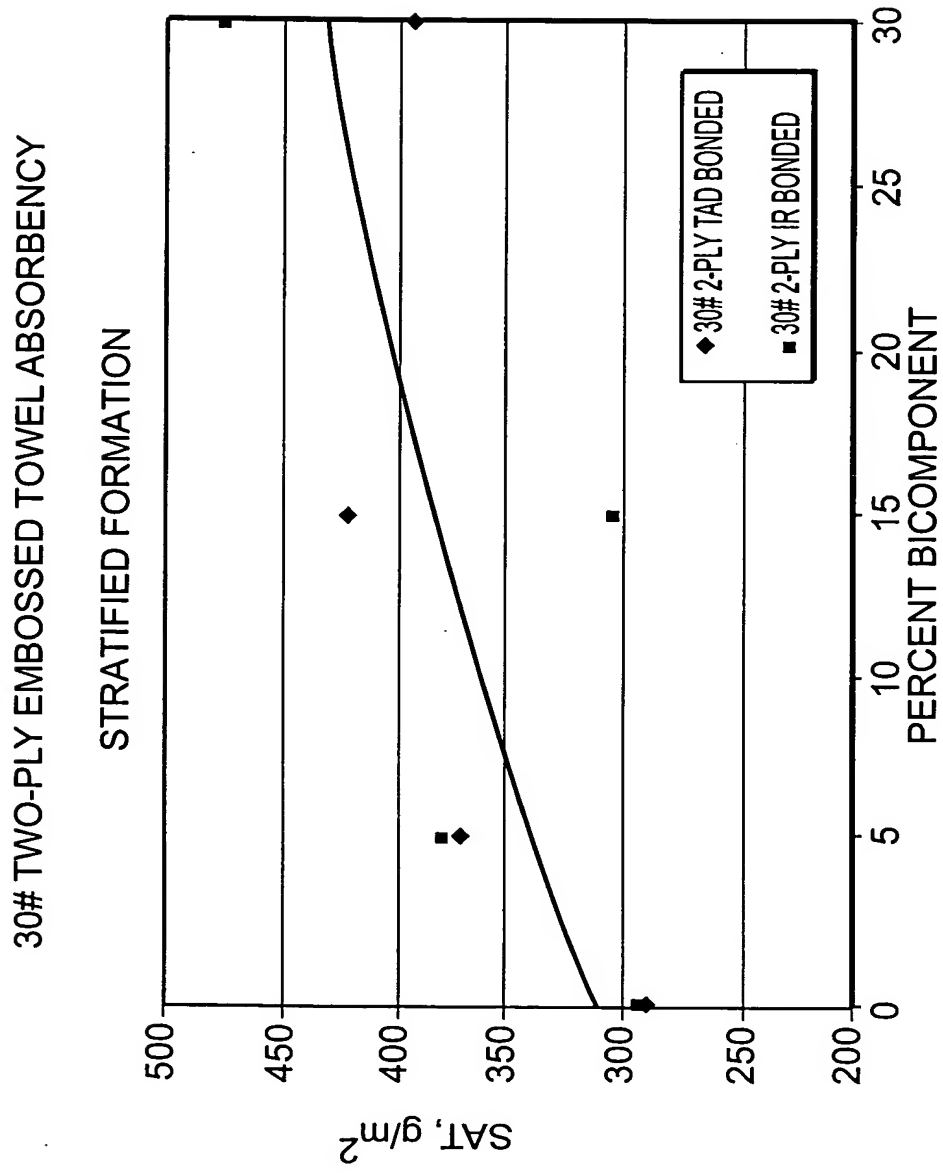


FIG. 21

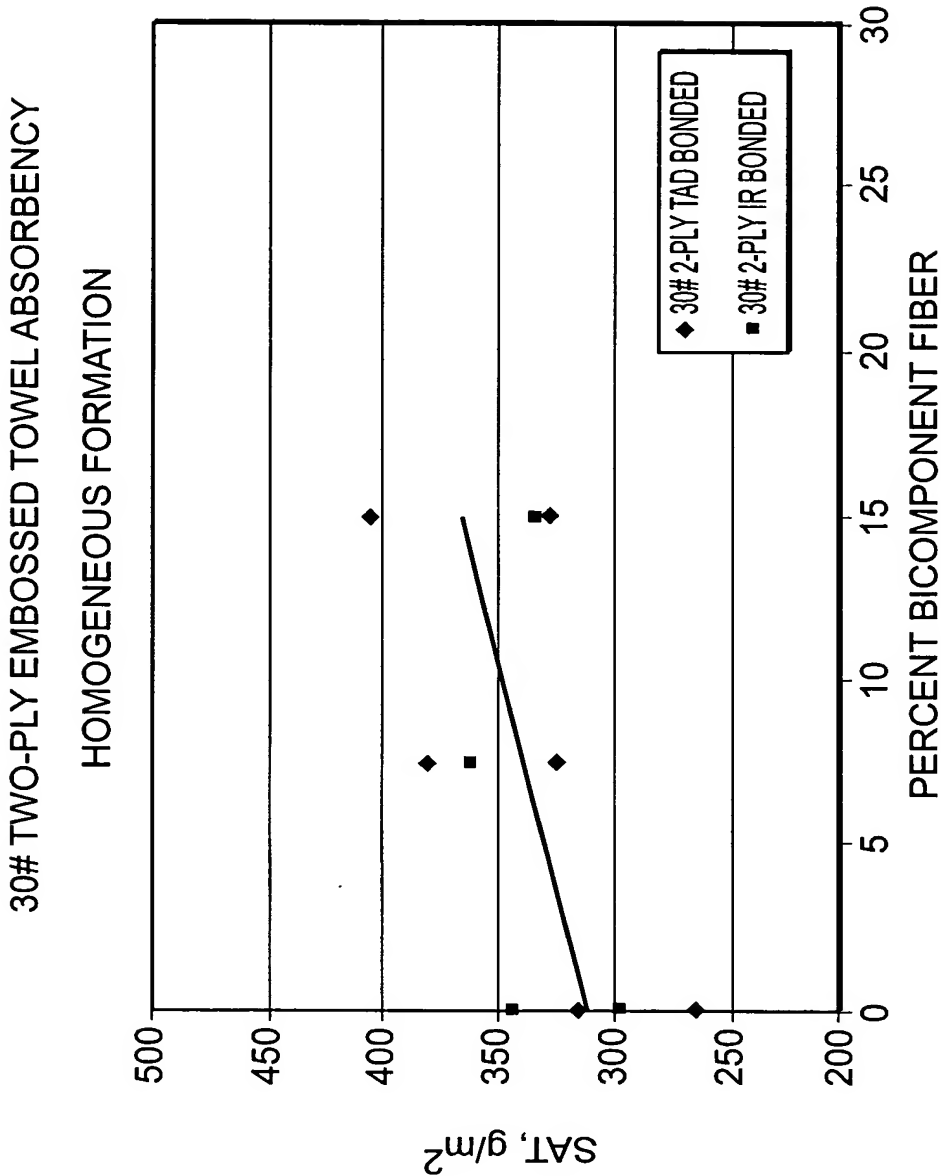


FIG. 22

30# TWO-PLY EMBOSSED TOWEL CD WET TENSILE

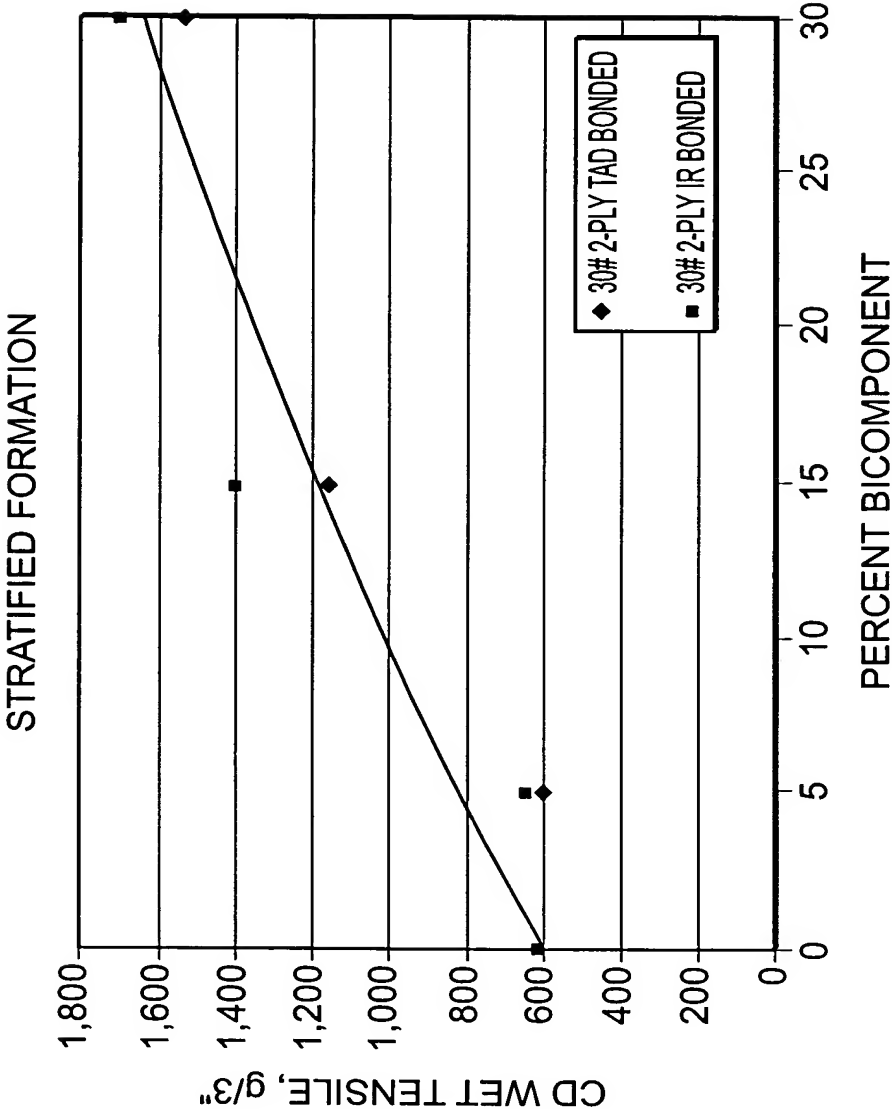


FIG. 23

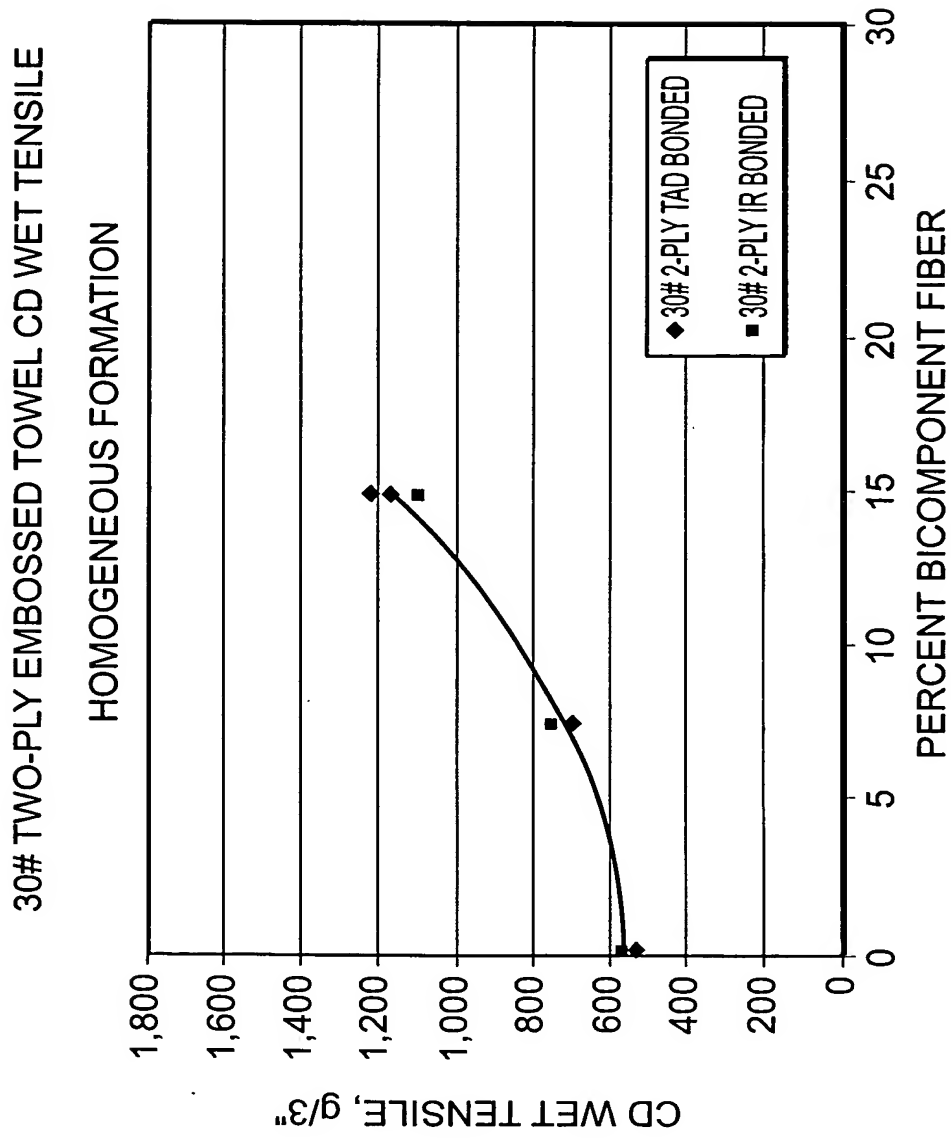


FIG. 24

Replacement Sheet

30# TWO-PLY EMBOSSED TOWEL WET BULK

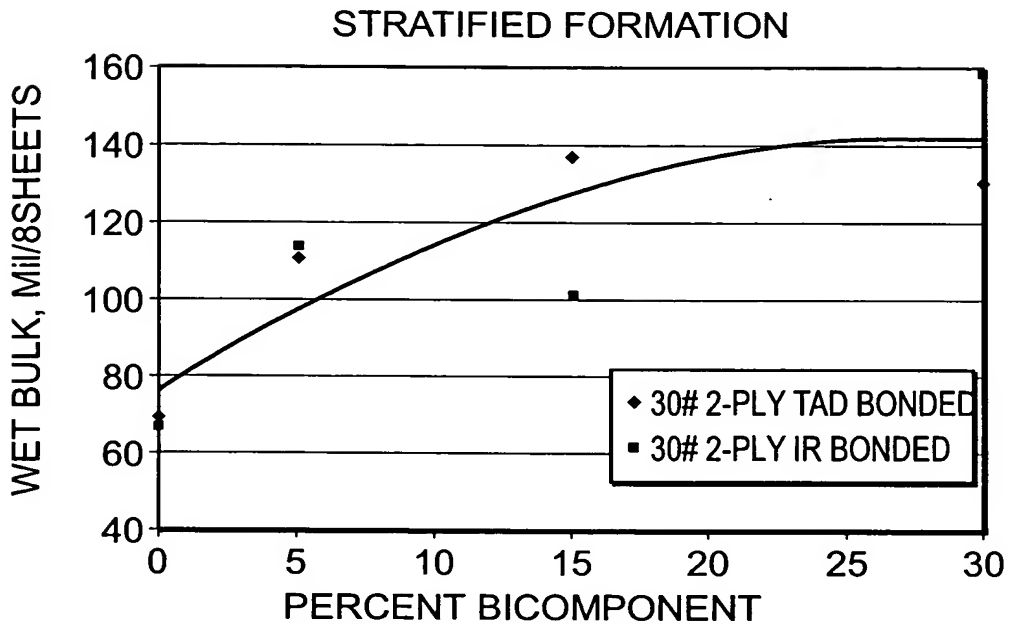


FIG. 25

30# TWO-PLY EMBOSSED TOWEL WET BULK

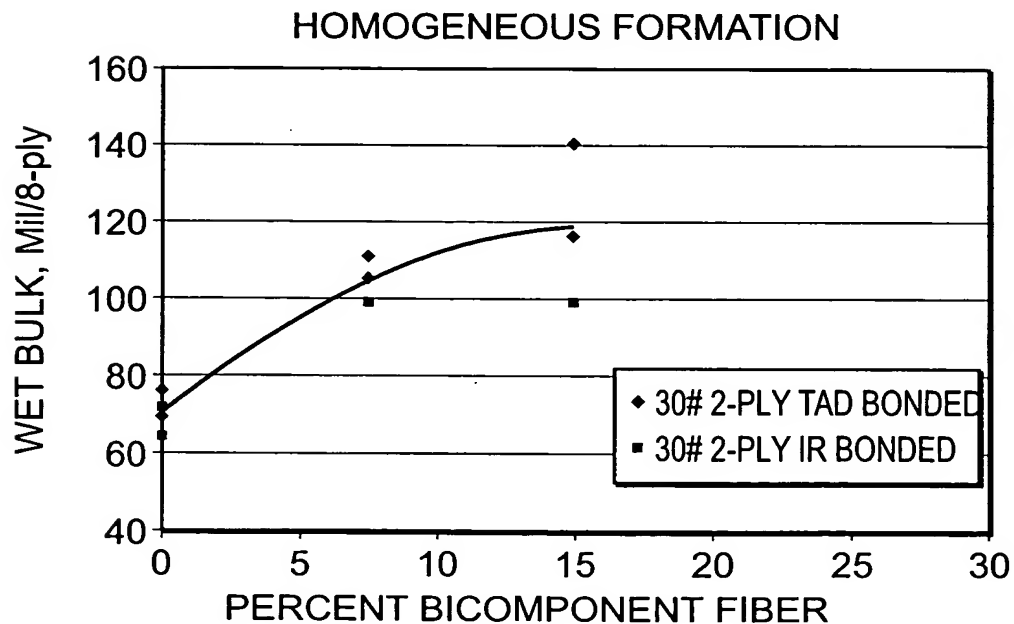


FIG. 26

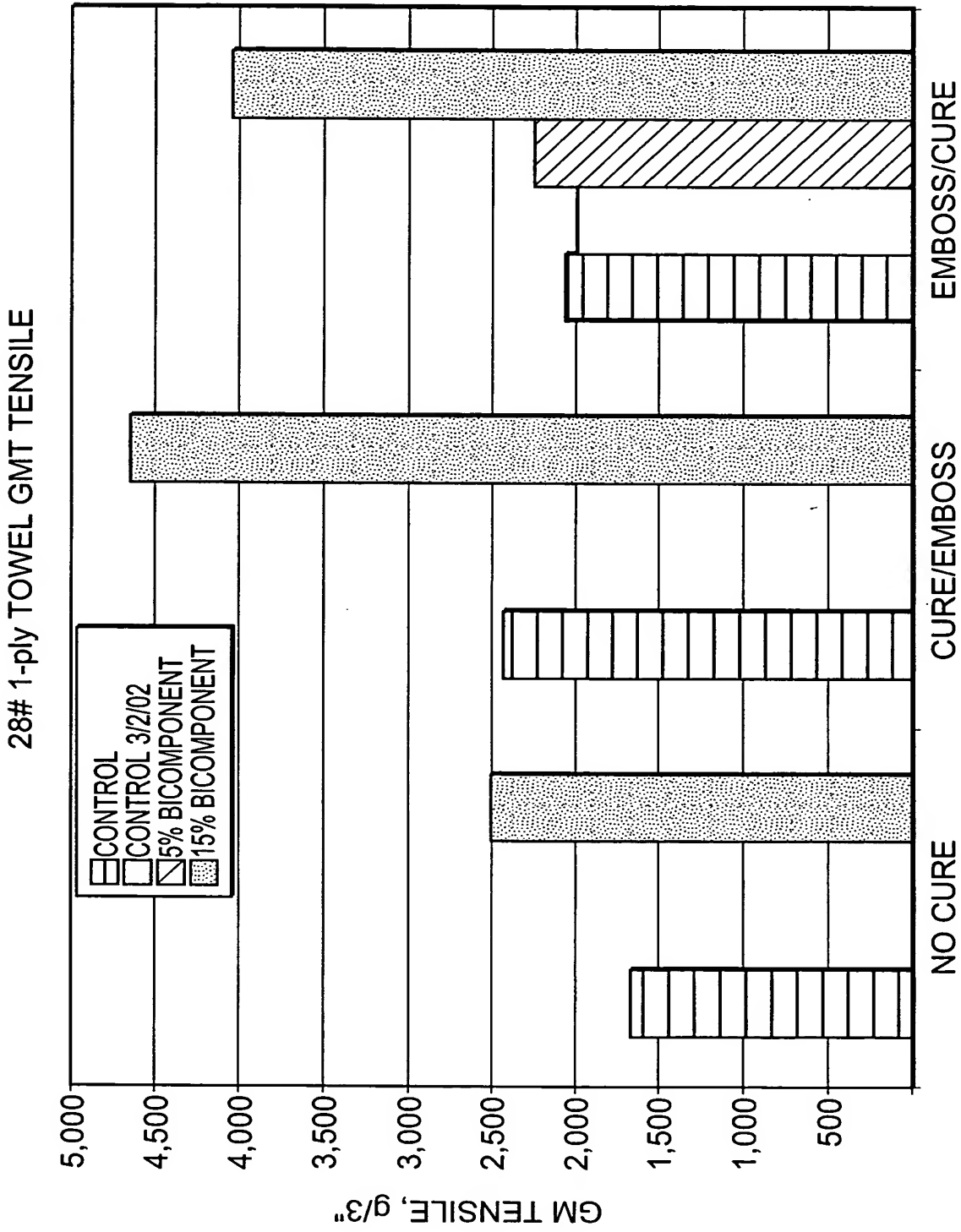


FIG. 27

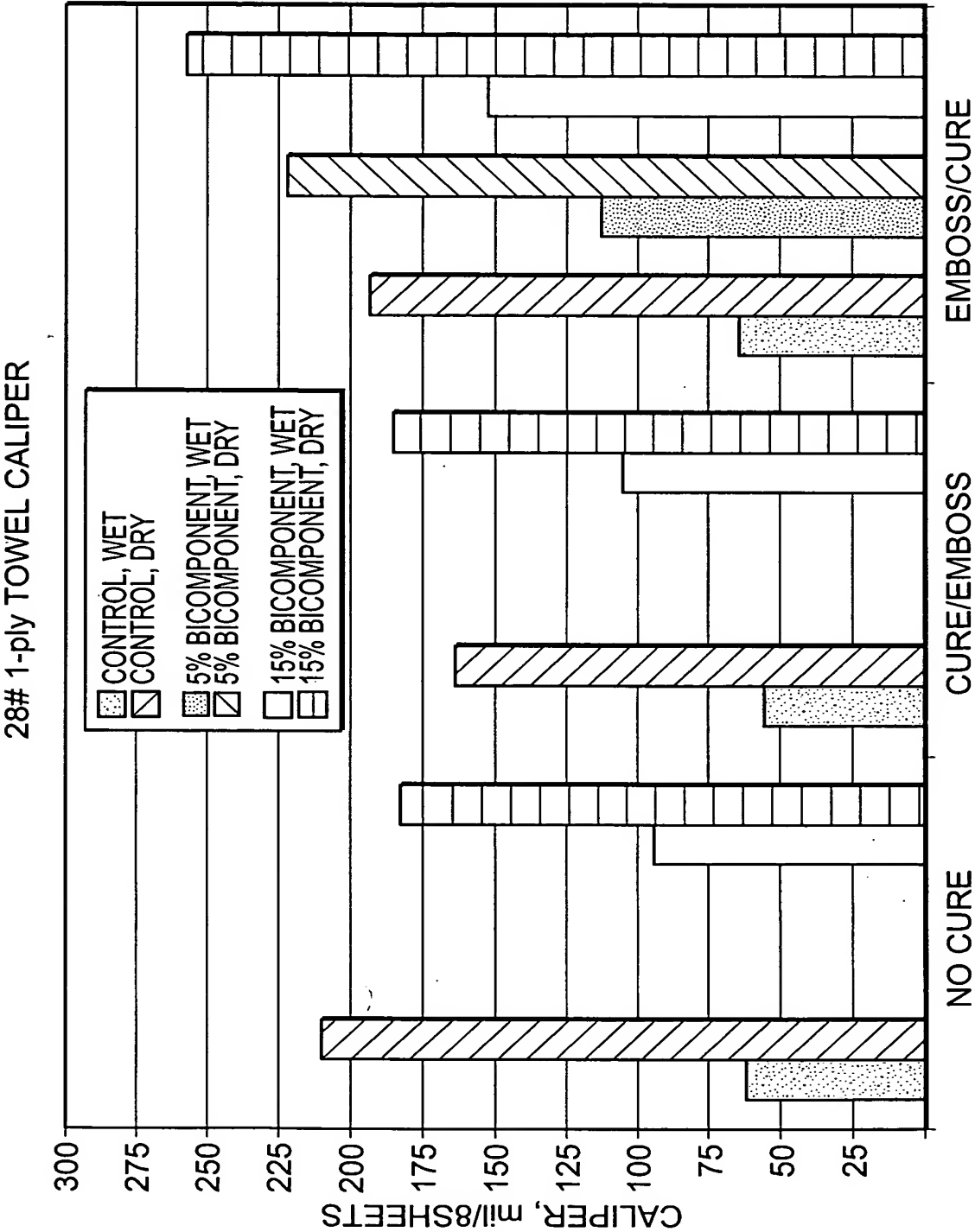


FIG. 28

28# 1-ply TOWEL WET RESILIENCY

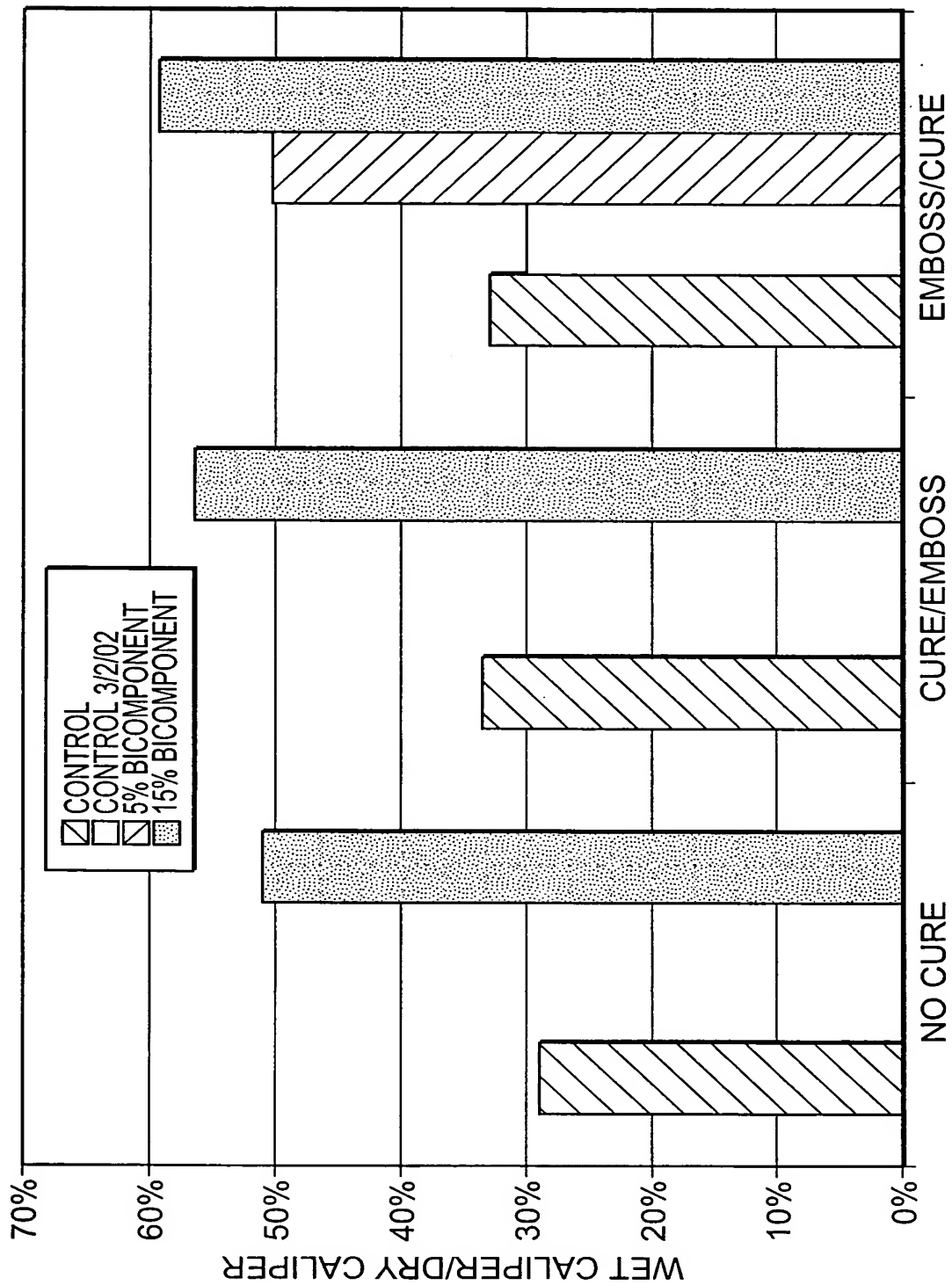


FIG. 29

28# 1-PLY TOWEL WET TENSILE

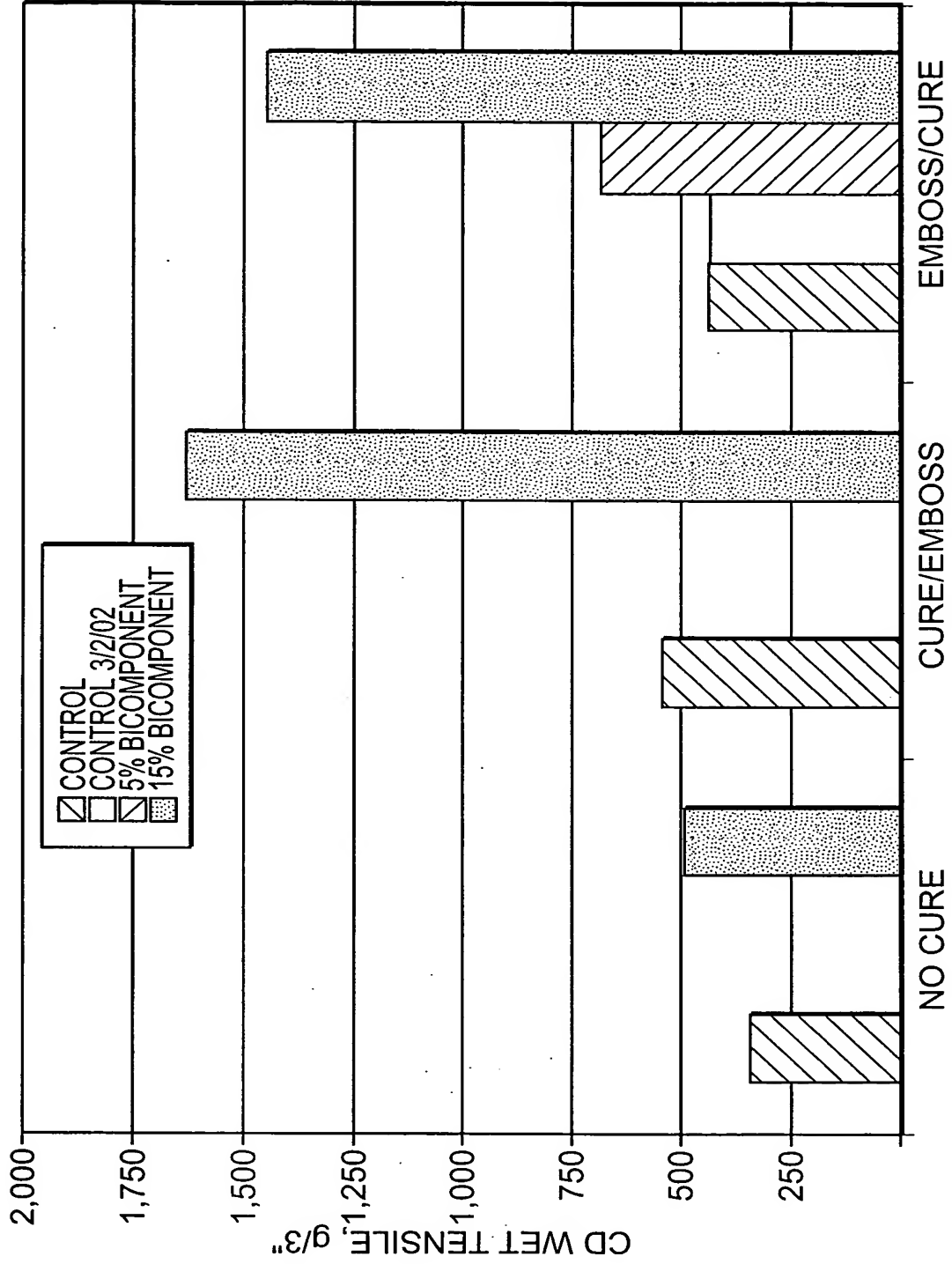


FIG. 30

28# 1-PLY TOWEL WET/DRY TENSILE

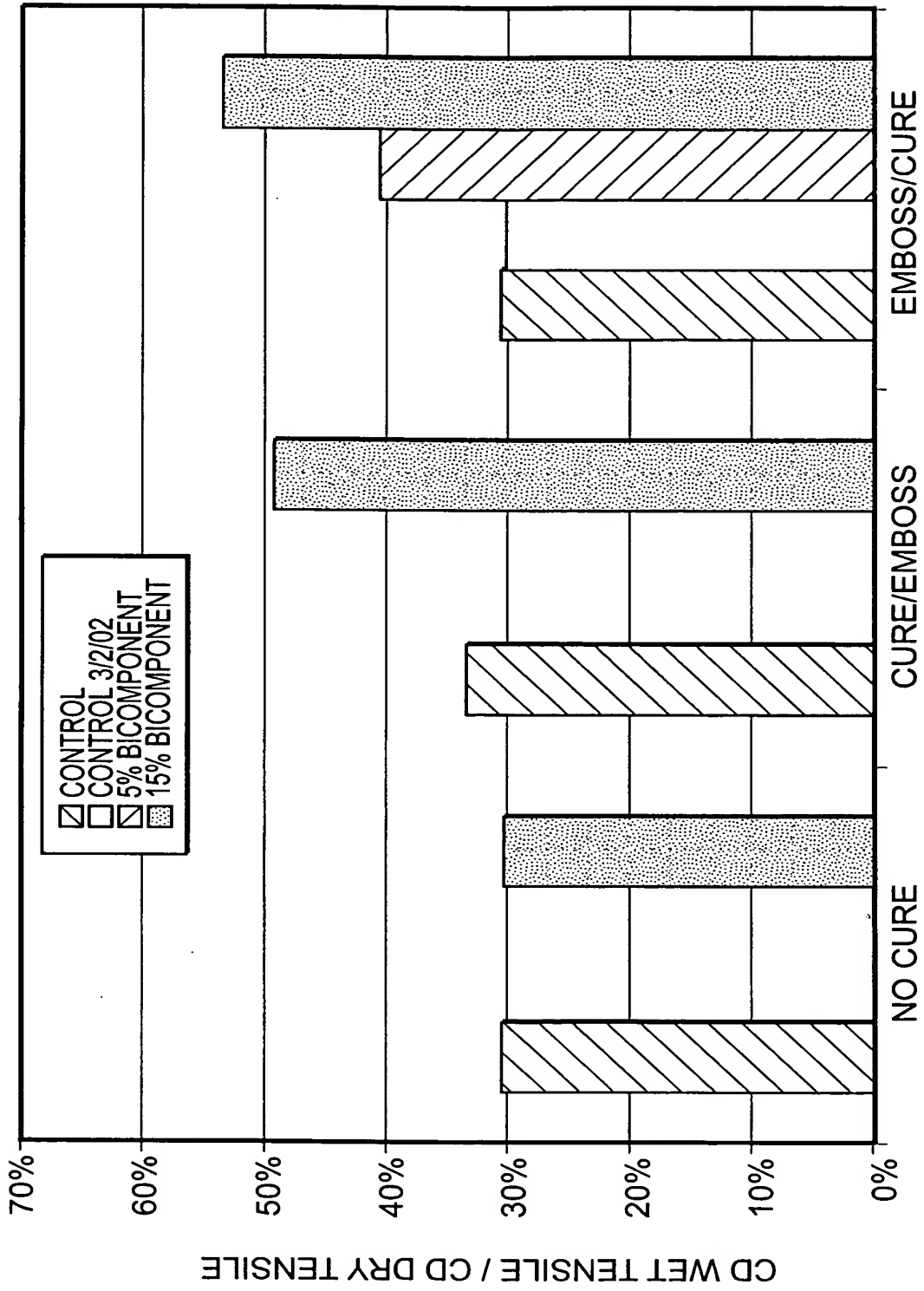


FIG. 31

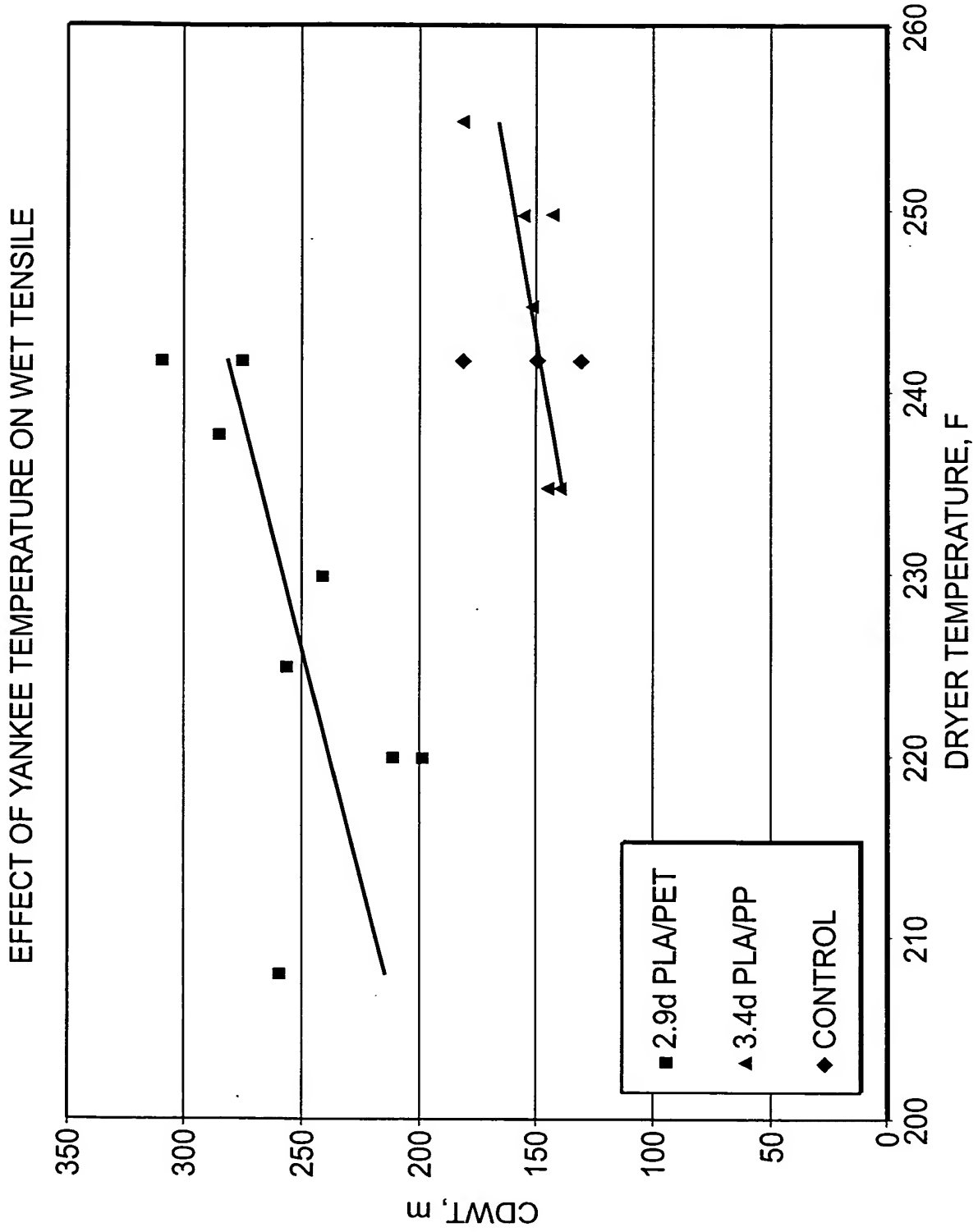


FIG. 32

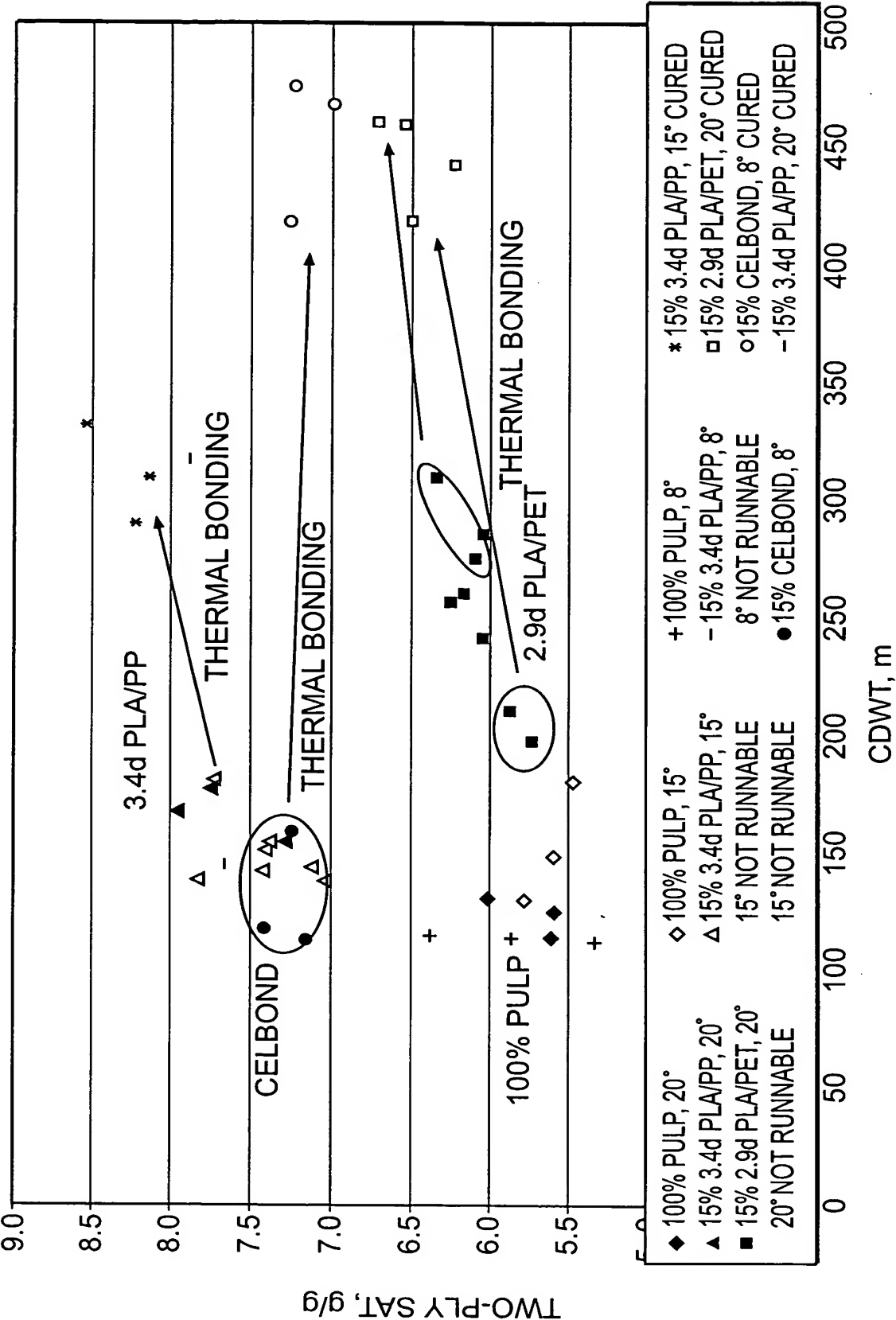


FIG. 33

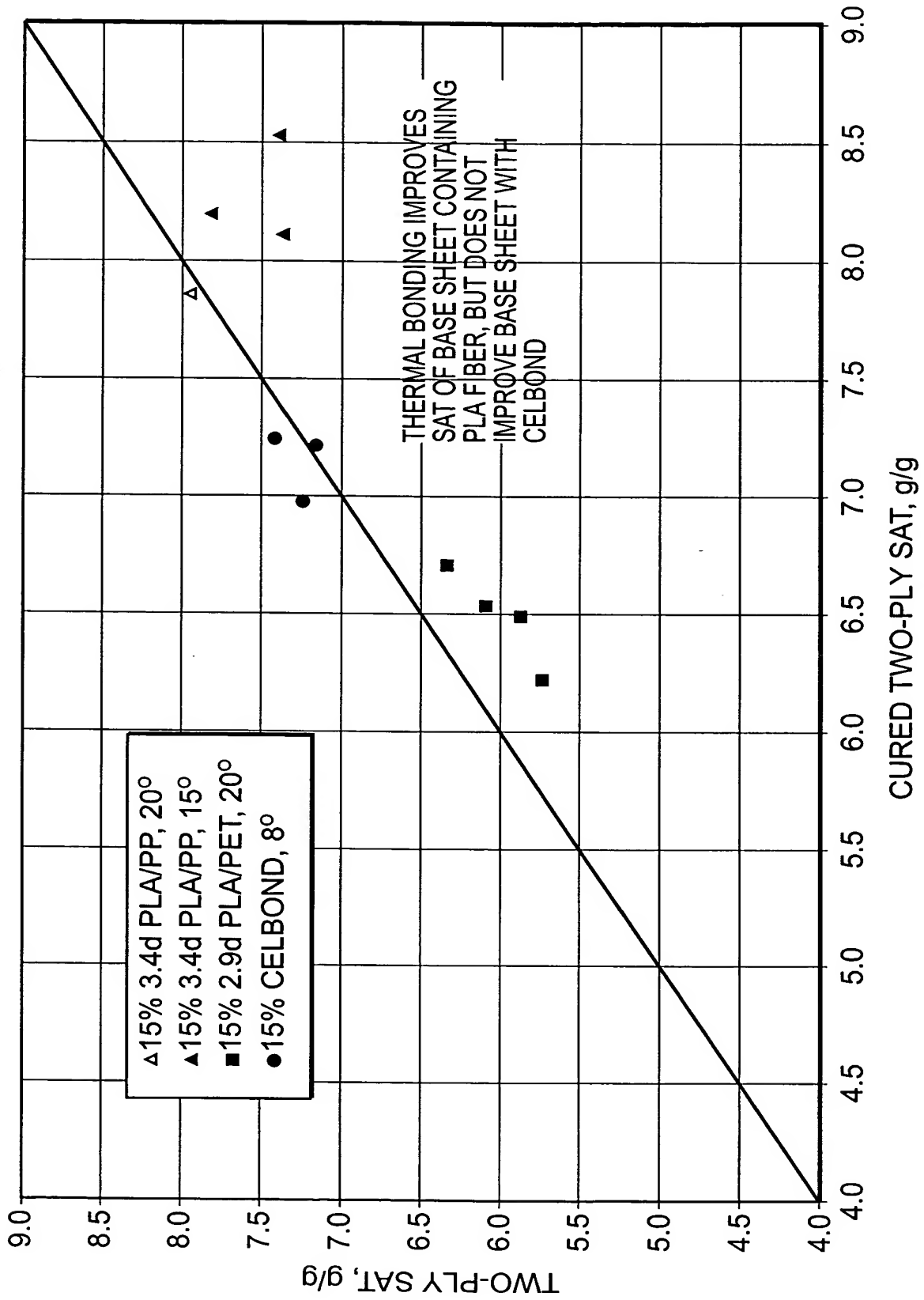


FIG. 34

EFFECT OF THERMAL BONDING ON MODULUS.

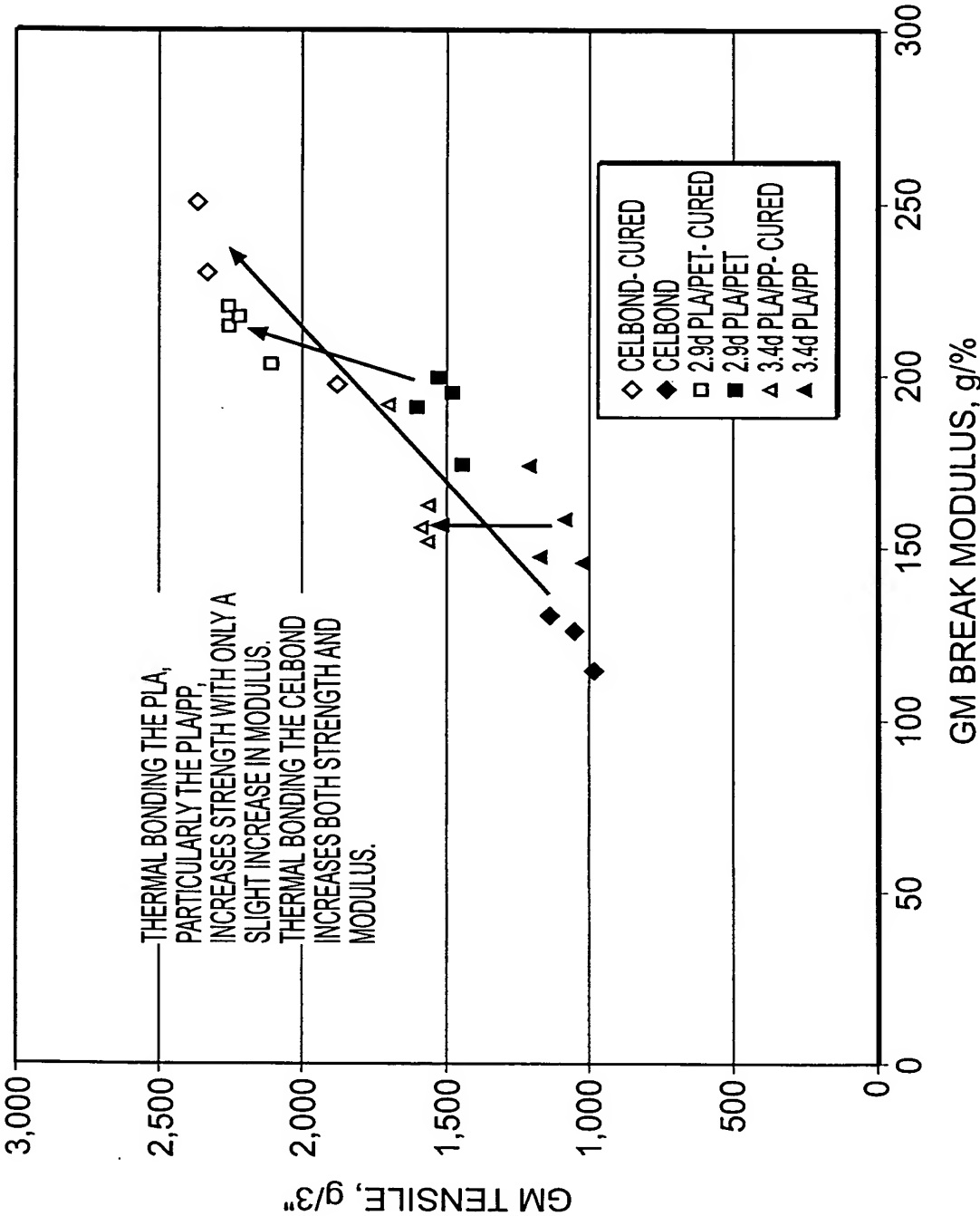


FIG. 35

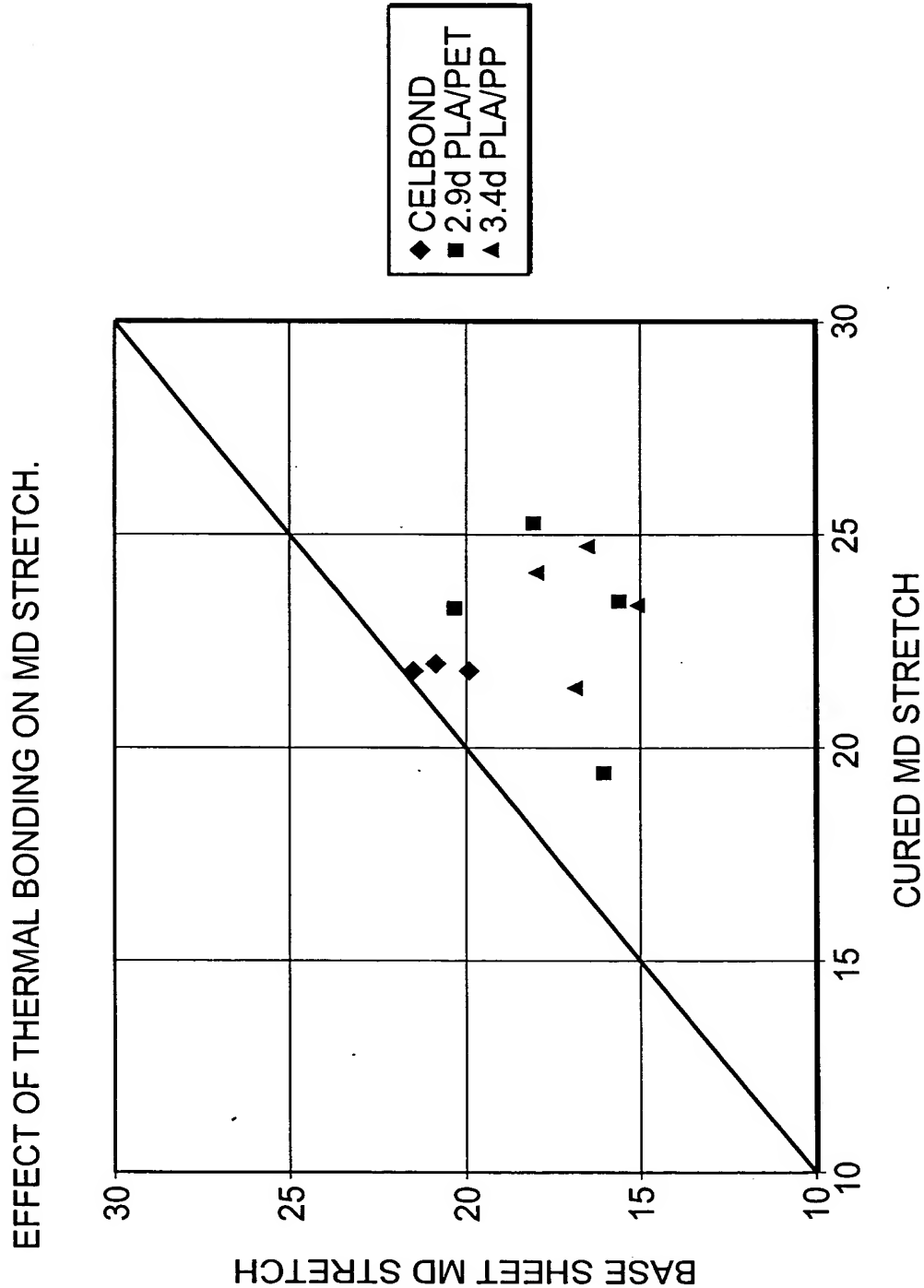


FIG. 36

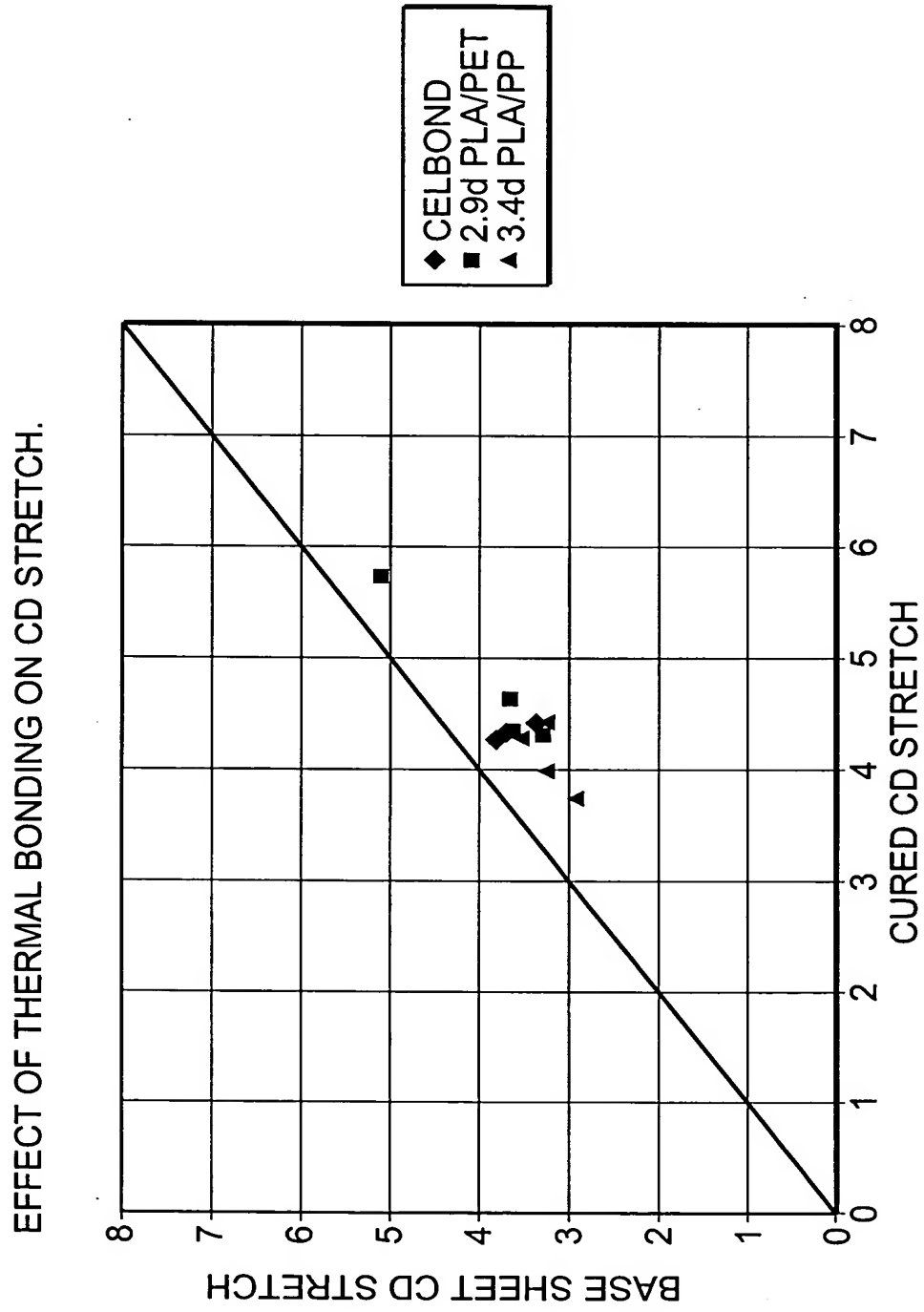


FIG. 37

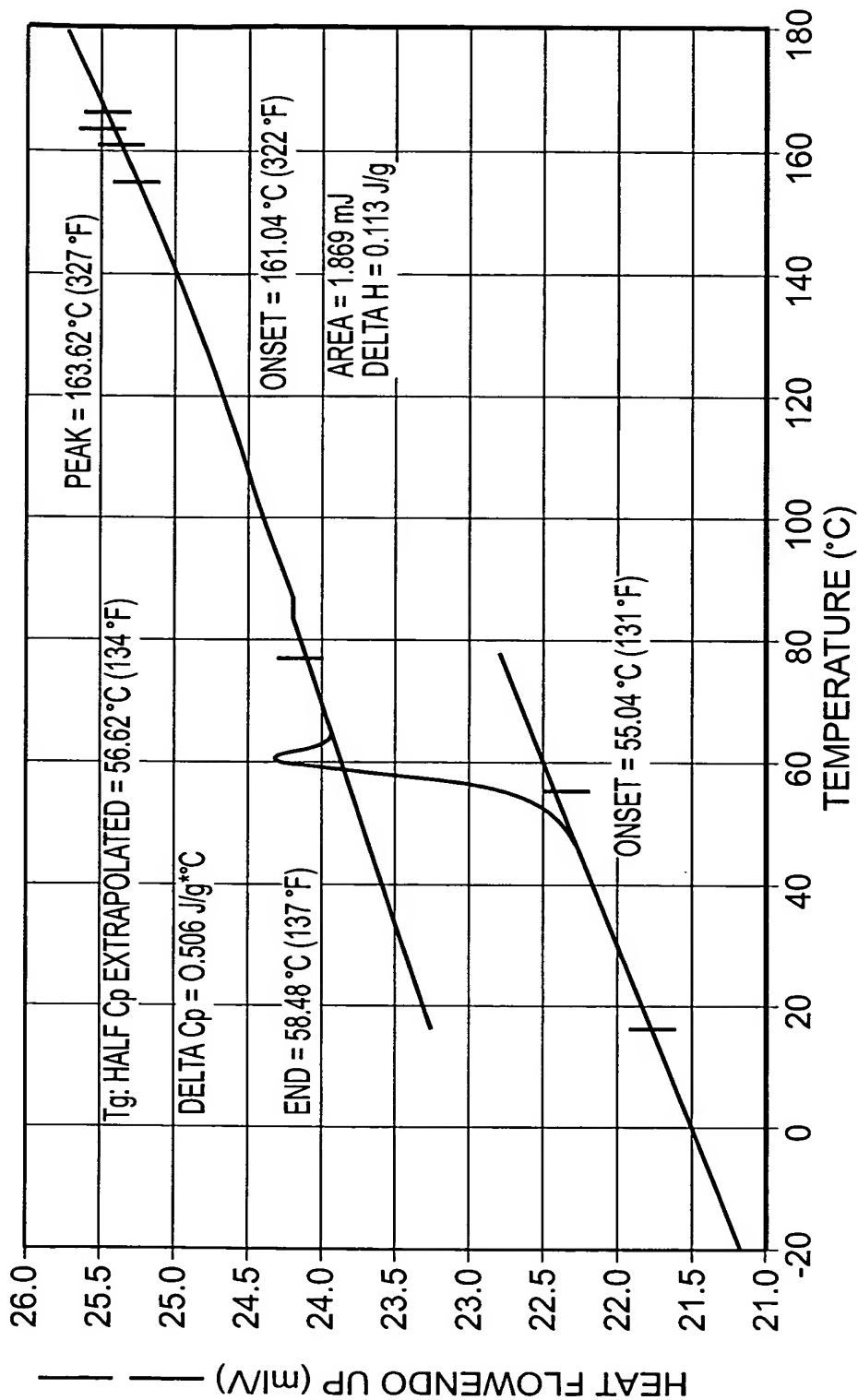


FIG. 38

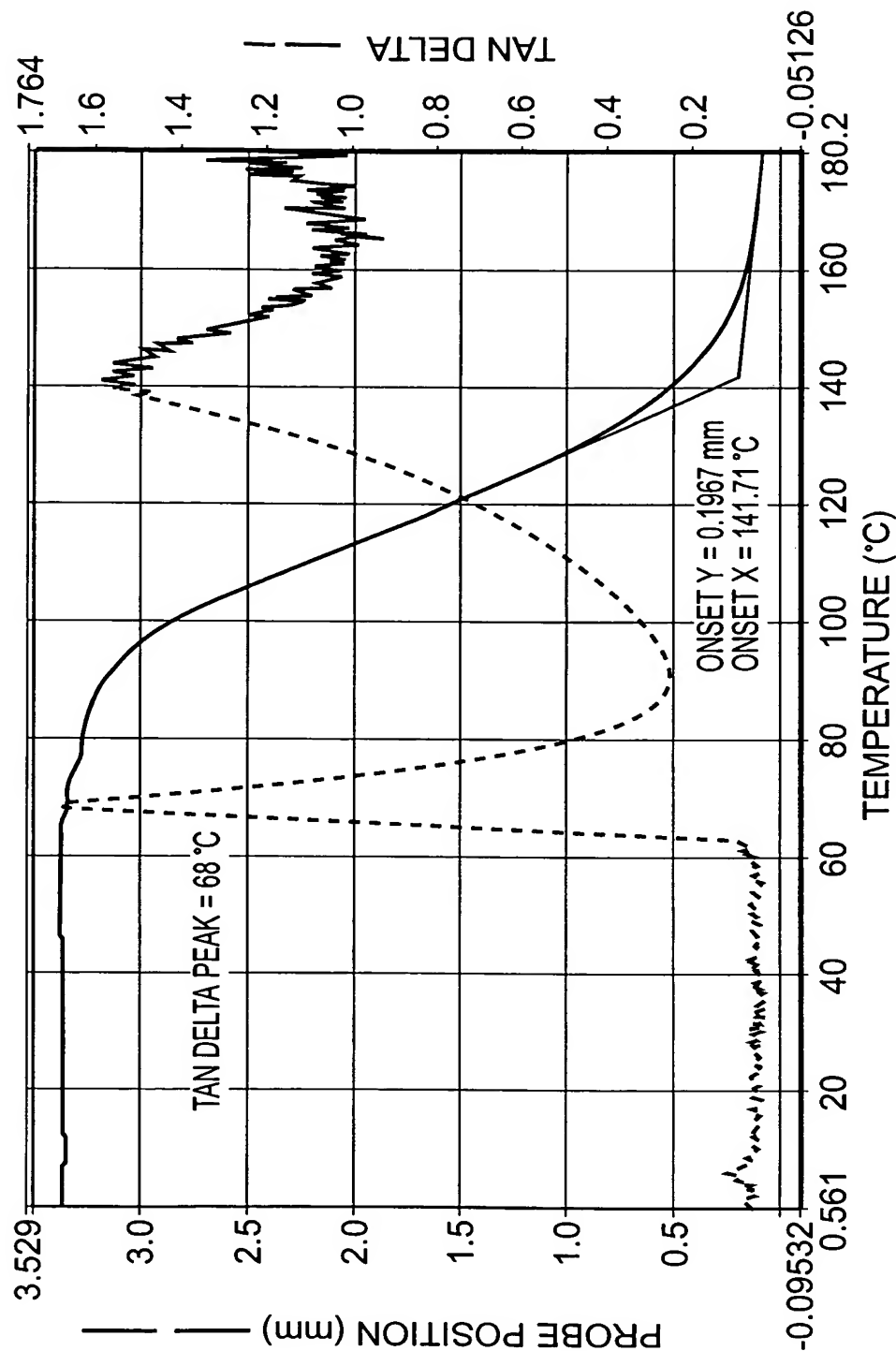


FIG. 39